# RUBY DAM

## Manual for Operation and Maintenance

State Water Projects Bureau
Water Resources Division
Department of Natural Resources and Conservation
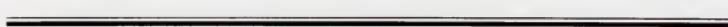1520 East Sixth Avenue
P. O. Box 202301
Helena, MT 59620-2301

June 1995

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# Contents

## OVERVIEW

Ruby Dam is located in Madison County about 6 miles south of Alder on the Upper Ruby Road. (Figure 1)  The reservoir is fed primarily by the Ruby River which originates in the Snowcrest and Gravelly mountain ranges, about 30 miles south of the dam.

The earthfill dam was completed in 1938.  Ruby Dam is 111 feet high and 846 feet long.  The dam's outlet works consist of a dry tower with a 72-inch diameter cast iron gate valve upstream from a 72-inch diameter butterfly valve used for flow control.  The control for both valves is at the top of the tower.  The maximum capacity of the outlet is 1,750 cubic feet per second (cfs).  The spillway is located in the right abutment. The ogee crest is 125 feet wide and has a capacity of 36,000 cfs.

The Ruby River Water Users Association (herein called "association") operates the dam and reservoir.  Water from the reservoir is delivered to purchasers through two canals, the West Bench Canal and the Vigilante Canal.  The West Bench Canal is 12 miles long and has a maximum capacity of 173 cfs.  The Vigilante Canal is 26 miles long and has a maximum capacity of 182 cfs.  In addition to providing irrigation water, the reservoir is used for water-based recreation.

**FIGURE 1**

**1. GENERAL LOCATION MAP**

RUBY DAM

2
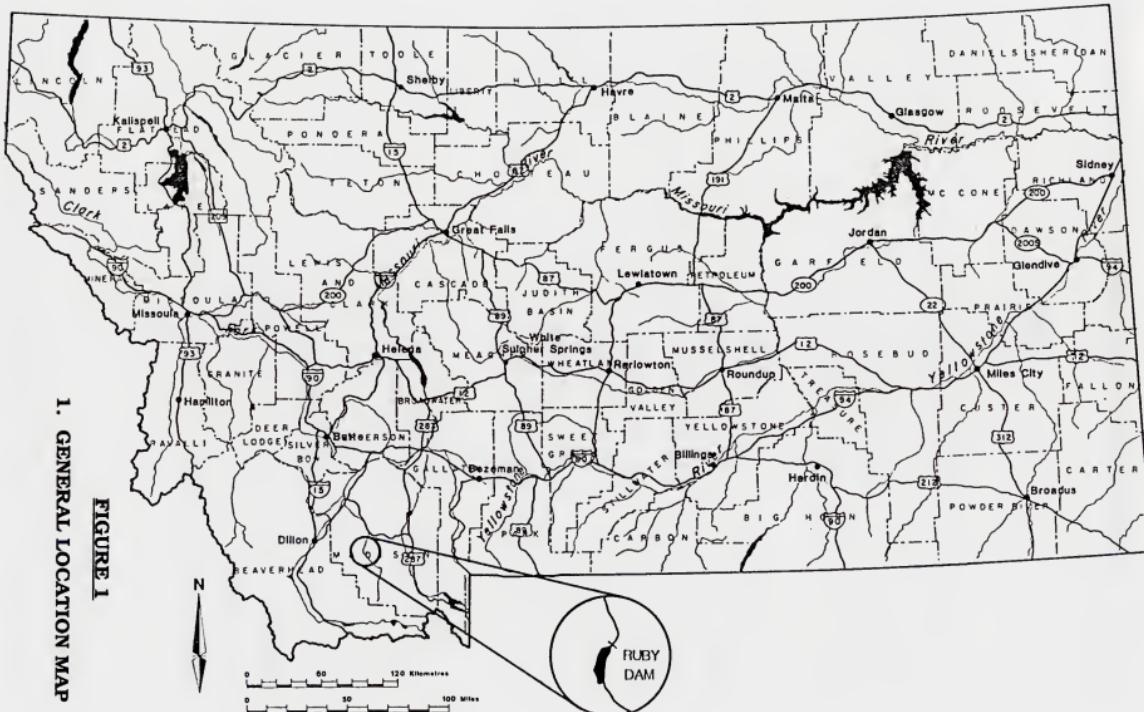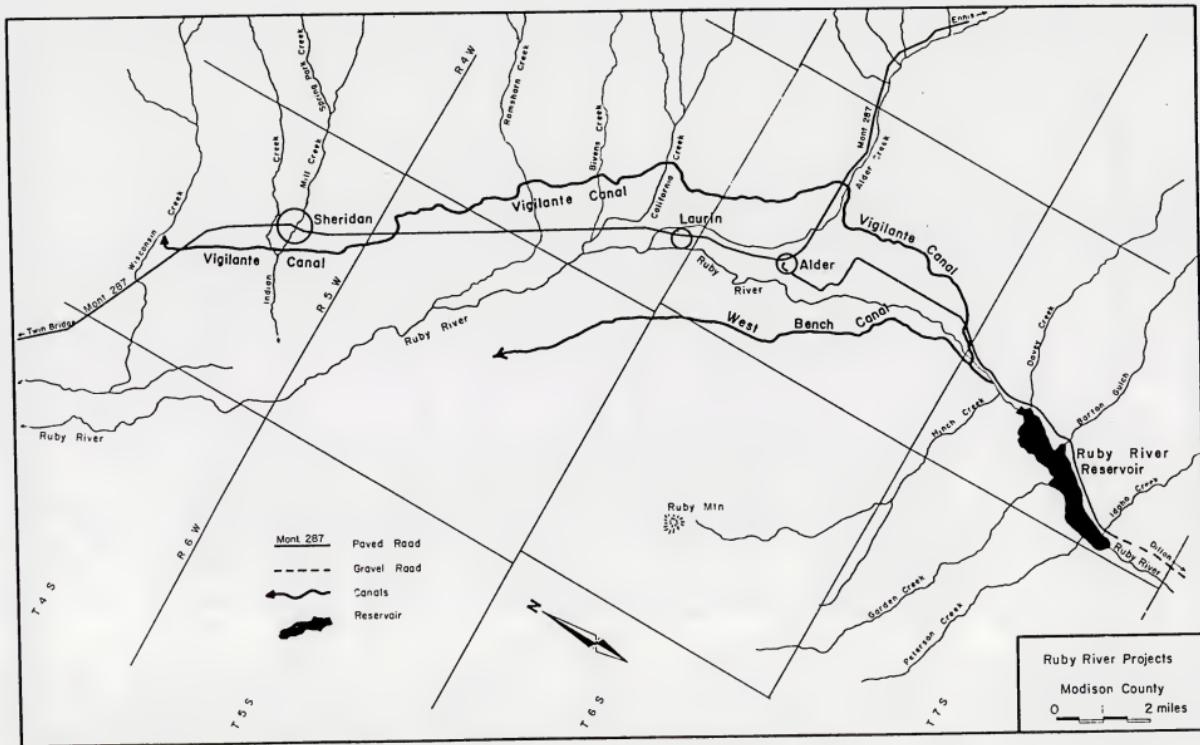
**FIGURE 2**

**2. PROJECT AREA MAP**

## STATISTICAL INFORMATION

1. **General**
   a) Owner — Montana Department of Natural Resources and Conservation (DNRC)

   b) Operator — Ruby Water Users Association

   c) Location — Section 8, Township 7 South, Range 4 West (dam location)

   d) Latitude — 45° 14' 06"
      Longitude — 112° 06' 42"

   e) County--State — Madison--Montana

   f) Watershed location — Ruby River, Jefferson River Basin

   g) Drainage area — 595 square miles

2. **Principal elevations**
   (feet above mean sea level)

   a) Minimum dam crest — 5,409.2 feet

   b) Normal full pool — 5,392.0 feet

   c) Flashboard crest — 5,392.97 feet

   d) Toe of dam — 5,299.0 feet

3. **Reservoir**
   a) Length of maximum pool (approximate miles) — 3.3 miles

   b) Maximum reservoir level of record (May 13, 1984) — 5,395.3 feet

   c) Surface area at normal pool — 970 acres

## 4. Storage

| | | |
|---|---|---|
| a) | Maximum storage (elevation 5,409.2 feet) | 56,355 acre-feet |
| b) | Normal storage (elevation 5,392.0 feet) | 36,633 acre-feet |
| c) | Storage to top of flashboards (elevation 5,392.97 feet) | 37,612 acre-feet |
| d) | Maximum surcharge | 19,722 acre-feet |

## 5. Hydrology

| | | |
|---|---|---|
| a) | Probable maximum flood (PMF) | 117,200 cfs (470,400 acre-feet) |
| b) | 100-year return period flood | 3,920 cfs |
| c) | 500-year return period flood | 4,725 cfs |
| d) | Maximum flow of record (1938-1992) at USGS gage 06019500, just upstream from reservoir | 3,810 cfs |

## 6. Embankment (Dam)

| | | |
|---|---|---|
| a) | Type | Earthfill |
| b) | Hydraulic height | 111 feet |
| c) | Crest length | 846 feet |
| d) | Crest width | 25 feet |
| e) | Downstream slope | 1v on 2.0h |
| f) | Upstream slope (above 5,392 feet) | 1v on 2.0h |

g) Upstream slope
(below 5,392 feet)                  1v on 3.0h

## 7. <u>Outlet Works</u>

a) Size                          90-inch concrete straight-
                                 legged horseshoe

b) Length                        635 feet

c) Control                       72-inch diameter slide gate
                                 upstream from a 72-inch
                                 butterfly valve--both valves
                                 are operated from the top of a
                                 96-inch diameter concrete
                                 tower

d) Capacity (at elevation        1,750 cfs
   5,409.2 feet)

e) Invert elevation              5,298 feet

f) Trashrack                     Yes

## 8. <u>Spillway</u>

a) Location                      Right abutment

b) Type                          Uncontrolled ogee (under
                                 normal operation a nominal
                                 1-foot flash board is placed
                                 across the crest of the ogee)

c) Width                         125 feet

d) Length                        361 feet

e) Capacity (at elevation        36,000 cfs
   5,409.2 feet--without
   flashboards)
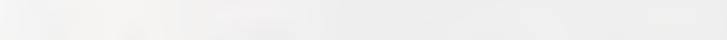
## OPERATING PROCEDURES

The association operates Ruby Reservoir to provide an adequate supply of irrigation water to meet contracts with water users without exceeding safe storage or flow levels.

### Method and Schedule of Operation

The association's goal is to have the reservoir full before contract holders start putting in calls for water. The reservoir fills almost every year. The date that irrigation releases begin varies from year to year, with late-April typically the earliest. Irrigation releases from the reservoir usually end by October 1. The actual dates that releases begin and end depend on a year's climatological and hydrological conditions.

The Ruby River Reservoir Task Force has issued a Draft Report dated May 17, 1995 which spells out goals for the operation of the project to minimize dewatering of the reservoir and the river below the dam. The guidelines for the operation of Ruby River Reservoir developed by the task force are shown in Appendix C.

The maximum reservoir elevation for winter storage is 5,371 feet with 19,294 acre-feet of storage. This winter maximum helps prevent damage to the riprap and embankment from wind-driven waves and ice. The minimum reservoir pool is 2,600 acre-feet of storage. This currently corresponds to an elevation of 5,330.27 feet. This minimum level helps protect the fishery in the reservoir, help prevent sediment from being

washed downstream, and helps during the winter to prevent ice damage to the inlet structure for the outlet works.

## Safe Drawdown

Because the stability of Ruby Dam has not been thoroughly investigated, DNRC recommends that drawdown rates not exceed one foot per day.

## Limitations of Appurtenances

Appurtenances to the Ruby Dam include the supply and delivery canals, the outlet works, and the spillway. The maximum capacity of the outlet works is 1,750 cfs at the minimum dam crest. The flow through the outlet works should be limited to a maximum of 600 cfs for short duration flows, and 450 cfs for long duration flows. These flows are to minimize damage to the outlet stilling basin. In addition, the spillway will discharge 36,000 cfs with the reservoir water elevation at the dam crest, without the flashboards in place. The spillway capacity with the flashboards in place is 32,400 cfs. The spillway rating table is shown in Appendix A.

## Dam Operator

The responsibility for the daily operation of the dam and reservoir rests with the association and its dam operator. The dam operator is generally authorized to operate the reservoir to meet the association's goal of providing adequate water to satisfy water purchase contracts without exceeding safe storage or flow levels. The dam operator's specific responsibilities are to:

1. *Operate the mechanical features of the outlet works*

2. *Coordinate filling the reservoir and releasing water*

3. *Notify the State Water Projects Bureau (SWPB) of unusual occurrences* such as impending floods or excessive seepage

4. *Perform various maintenance tasks*

5. *Monitor weather conditions*

6. *Monitor seepage*

Typically, the out-going dam operator, the water users association and the SWPB train a new dam operator. The dam operator's training focuses on the mechanical operation of the gates, measurement of the storage level, measurement of the rate of water release, and record keeping. The outlet gates are operated by a portable electric pipe-threading tool, fitted with an adapter to fit the gate's operating shaft. If necessary, the gates can be operated manually with a hand crank. The outlet works are intended to be used for controlling the release of irrigation water and not for providing emergency relief.

The dam operator is normally available daily to observe the dam and perform operating functions during the filling and irrigation seasons. At other times of the year the operator is available weekly or monthly. The dam operator lives downstream of the reservoir, within sight of the dam. Any changes to the dam crest, faces of the dam, or the outlet structure will be visible to the dam operator. Communication between the dam operator, the association, and the SWPB usually takes place by telephone. Although not typically available, radio communication may be

established during emergencies or unusual occurrences, so that the dam operator can speak directly with county authorities and communicate indirectly with the SWPB (see *Ruby Dam Emergency Action Plan*).

### Weather Monitoring

The dam operator monitors weather conditions through local weather forecasts and the National Weather Service.

### Interaction With Other Dams

Except for irrigation diversion dams, Toston Dam and Canyon Ferry Dam are the next dams downstream from Ruby Dam. The safety of these dams is not affected by the normal operation of Ruby Dam. Therefore, interaction with other dams is not a concern of the normal operation of Ruby Reservoir. If it appears that Ruby Dam will breach, the dam operator should notify the operators at Toston Dam (**406-266-3869**) and Canyon Ferry Dam (**406-475-3310**).

# INSPECTION AND MONITORING

The SWPB will inspect the dam annually. Appendix B includes an example of a SWPB inspection checklist. In addition to annual inspections, SWPB personnel will inspect the dam and reservoir during and after heavy runoff, severe rainstorms, and severe windstorms; during high storage periods; and after an earthquake. The embankment is not monitored by instrumentation.

## Structural Features Inspection

Structural features include the gatehouse, outlet works, and spillway. (Figure 3) The SWPB will inspect these structures annually as part of its inspection program. Items checked or noted include, but are not limited to:

1. *Outlet Works*

    a) Any differential settlement or movement resulting in cracking of the conduit

    b) Erosion of the seals or concrete by cavitation immediately downstream of the gates

    c) Major seepage of water into the conduit

    d) Major deterioration of exposed concrete due to freeze/thaw cycles or sulfate reactions

    e) Operation of both gates through a full cycle

    f) Air vent for free, unobstructed operation

    g) Corrosion of any metal

    h) Proper lubrication of the gate pedestals
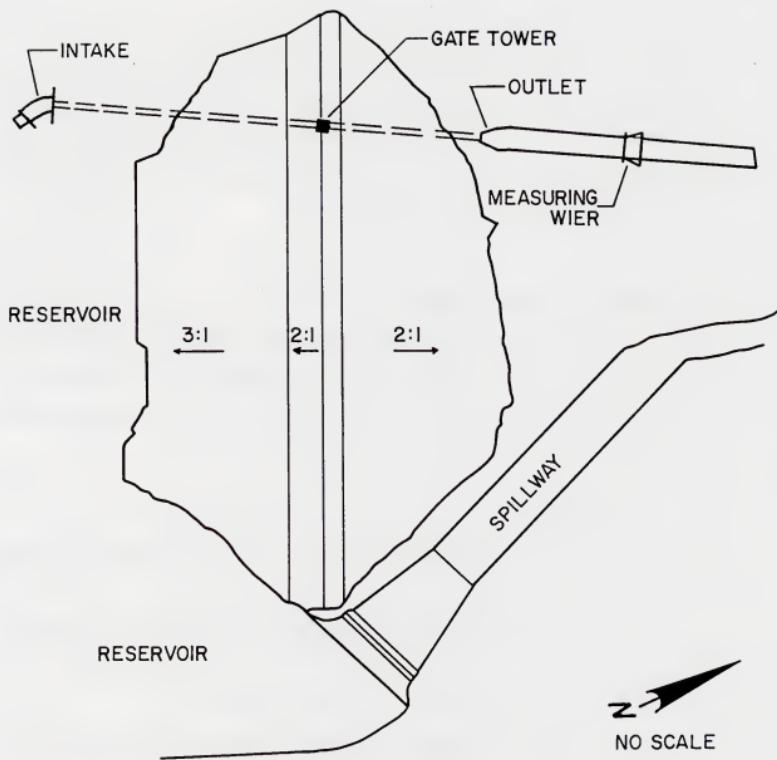
**FIGURE 3**

**3. GENERAL LAYOUT**

14

2. *Gate Tower* -- any damage or vandalism

3. *Spillway*

   a) Deterioration of concrete

   b) Separation or movement of joints

   c) Erosion of the spillway chute, backfill behind the walls, or stilling basin

   d) Blockage of the approach or exit channel

3. *Embankments*
   a) Erosion gullies in dam and dike faces.

   b) Damage from burrowing animals or vegetation.

   c) Displacement or loss of rip-rap protection.

   d) Displacement of fill, sink holes, slumps etc.

   e) Any seepage.

## Riprap Inspection

The riprap along the faces of the dam should be at least 30 inches thick. Immediately after the occurrence of high water, SWPB personnel will inspect the riprap and determine if additional riprap is necessary.

## Seepage Monitoring

There are no visible seepage areas downstream of the dam. There are two drains located in the spillway which flow when the reservoir pool is near the spillway crest. Also, the joints in the two lower right spillway floor slabs will seep water when the reservoir pool is near the spillway

crest elevation. The weep holes in the spillway flipbucket appear to be flowing, but the rate cannot be determined because the water in the flipbucket submerges the drains. In 1993, the 6-inch diameter drain in the left wall of the outlet tunnel was flowing, but the quantity of the flow could not be determined. The drain is difficult to measure due to its location in the outlet tunnel floor. This drain was installed to drain a spring that was discovered during construction of the dam. All of the drains are flowing clear water. To date, no measuring devices have been installed on any of the drains.

# MAINTENANCE

The association is responsible for the project's routine maintenance. During regular visits, the dam operator will identify and perform normal maintenance activities. During the annual inspections, the SWPB will identify items that need maintenance or repair. The association will be required to perform the maintenance items within the time periods specified by the SWPB. The SWPB will supervise major repairs.

## Routine Maintenance

As soon as a need is identified, the dam operator will perform any routine maintenance necessary to protect the dam or keep it in good working order.   The dam operator will watch for any potential maintenance requirements during normal visits to the dam.   Items that may occasionally need attention include, but are not limited to:

1.   *Lubrication of gate-operating mechanisms.*

2.   *Debris or silt restricting the spillway inlet or the outlet works.* Accumulated debris that could affect the operation of these appurtenances will be removed at once, with all debris removed at least annually.

3.   *Erosion gullies on embankment.* Development of erosion gullies will be checked immediately. Gullies will be filled, compacted, and seeded. Particular attention will be paid to the abutment contact areas and the downstream faces where four-wheel-drive tracks may become a problem.

4.  *Rodent damage*.  Rodent burrows will be filled immediately and the rodents removed or destroyed.

5.  *Upstream slope riprap*.  Reservoir riprap normally will be maintained annually, but may occasionally need repairs because of high water or wave action.

6.  *Vegetative cover on downstream slopes*.  Good vegetative cover will be maintained, but large brush will be removed.

## Annual Maintenance

The SWPB will conduct annual inspections of Ruby Dam and Reservoir.  During these inspections, any items that require maintenance will be identified and recorded.  Items needing annual maintenance include the spillway, outlet works, gates, riprap, roads, and gatehouse.  Any other routine items needing immediate attention also will be noted including the need to remove trees or brush.

After the association receives the SWPB inspection report, it will develop a maintenance schedule for any identified items.  While the dam operator or association members may perform these routine tasks, major repairs are more likely to be performed by a contractor.  The SWPB will assist in contracting for repairs and may supervise the repair work.

## Record Keeping

The SWPB will maintain records--including photographs--of all inspections and maintenance requirements.  These records will also include flow measurements and storage volumes.  Anyone who wants to

review these records may do so in the SWPB's office at the Department of Natural Resources and Conservation in Helena.

The dam operator will keep records of the reservoir elevation, seepage observations or measurements, and any unusual conditions. These records may be reviewed at the dam operator's house.

# REFERENCES

CH2M Hill. April 1980. *Phase 1 Inspection Report, National Dam Safety Program, Ruby Dam, Alder Montana, Madison County, MT-4.* Prepared for the State of Montana (DNRC) under the U.S. Army Corps of Engineers' National Dam Safety Program.

Omang, R. J. July 1992. *Analysis of the Magnitude and Frequency of Floods and the Peak-Flow Gaging Network in Montana.* Water Resources Investigations Report 92-4048. Helena, Montana: U.S. Geological Survey

Shields, R. R., J. R. Knapton, M. K. White, T. M. Brosten, and C. L. Chambers. 1993. *Water Resources Data, Montana, Water Year 1992.* Water Data Report MT-92-1. Helena, Montana: U.S. Geological Survey

Todd, Neil, Ruby Dam operator. April 1993 and November 1993. Personal meeting and telephone communications with Jim Beck, Water Resources Division, Helena Regional Office Civil Engineering Specialist, DNRC, Helena.
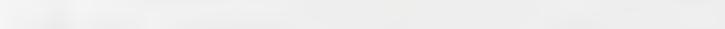
# APPENDIX A

## RATING CURVES AND TABLES

RUBY DAM SPILLWAY RATING TABLE

| ELEVATION (feet) | CONCRETE SPILLWAY CREST (cfs) | FLASHBOARD CREST (cfs) |
|---|---|---|
| 5,392.00 | 0 | |
| 5,392.97 | 478 | 0 |
| 5,393.00 | 500 | 2 |
| 5,394.00 | 1,150 | 435 |
| 5,395.00 | 2,100 | 1,204 |
| 5,396.00 | 3,400 | 2,184 |
| 5,397.00 | 4,800 | 3,333 |
| 5,398.00 | 6,400 | 4,627 |
| 5,399.00 | 8,400 | 6,041 |
| 5,400.00 | 10,100 | 7,563 |
| 5,401.00 | 12,400 | 9,196 |
| 5,402.00 | 14,600 | 10,908 |
| 5,403.00 | 17,300 | 12,698 |
| 5,404.00 | 19,800 | 14,575 |
| 5,405.00 | 22,600 | 16,508 |
| 5,406.00 | 25,800 | 18,520 |
| 5,407.00 | 28,900 | 20,581 |
| 5,408.00 | 31,900 | 22,696 |
| 5,409.00 | 35,000 | 24,870 |
| 5,409.20 | 36,000 | 25,337 |

**FIGURE A-1**



RUBY DAM SPILLWAY RATING CURVES

- Concrete Spillway Elevation 5,392.0
- Flashboard Crest Elevation 5,392.97
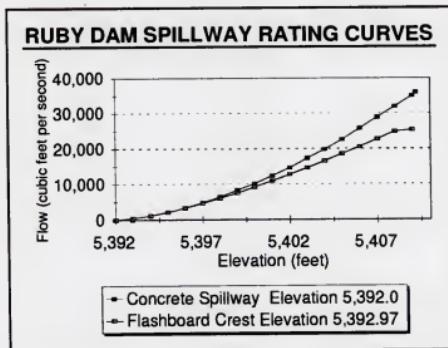
### RUBY RIVER RESERVOIR
### LIVE STORAGE TABLE

| SLOPE DISTANCE | ELEVATION (Feet) | CONTENTS (Acre-feet) | | SLOPE DISTANCE | ELEVATION (Feet) | CONTENTS (Acre-feet) |
|---|---|---|---|---|---|---|
| 0+00 | 5,395.87 | 40,610 | | | | |
| 0+00 | 95.07 | 39,738 { Top of Pin #1 | | +37 | 90.71 | 35,388 |
| +01 | 94.80 | 39,460 | | +38 | 90.56 | 35,243 |
| +02 | 94.36 | 39,015 | | +39 | 90.44 | 35,127 |
| +03 | 94.31 | 38,965 | | 0+40 | 5,390.33 | 35,021 |
| +04 | 94.22 | 38,874 | | +41 | 90.21 | 34,905 |
| +05 | 93.96 | 38,611 | | +42 | 90.10 | 34,809 |
| +06 | 93.88 | 38,531 | | +43 | 89.98 | 34,684 |
| +07 | 93.68 | 38,329 | | +44 | 89.97 | 34,675 |
| +08 | 93.56 | 38,208 | | +45 | 89.80 | 34,519 |
| +09 | 93.46 | 38,107 | | +46 | 89.70 | 34,427 |
| 0+10 | 5,393.33 | 37,975 | | +47 | 89.68 | 34,409 |
| +11 | 93.24 | 37,885 | | +48 | 89.54 | 34,281 |
| +12 | 93.13 | 37,773 | | +49 | 89.46 | 34,207 { Top of Pin #2 |
| +13 | 93.01 | 37,652 | | 0+50 | 5,390.20 | 34,896 |
| +13.8 | 92.97 | 37,612 | | 0+50 | 89.21 | 33,978 |
| +14 | 92.83 | 37,471 { Top of Boards | | +51 | 89.26 | 34,024 |
| +15 | 92.74 | 37,380 | | +52 | 89.20 | 33,969 |
| +16 | 92.65 | 37,289 | | +53 | 89.10 | 33,877 |
| +17 | 92.56 | 37,198 | | +54 | 89.02 | 33,804 |
| +18 | 92.45 | 37,087 | | +55 | 88.96 | 33,749 |
| +19 | 92.32 | 36,956 | | +56 | 88.93 | 33,721 |
| 0+20 | 5,392.25 | 36,885 | | +57 | 88.84 | 33,639 |
| +21 | 92.15 | 36,784 | | +58 | 88.79 | 33,593 |
| +22 | 92.00 | 36,633 | | +59 | 88.72 | 33,529 |
| +23 | 91.94 | 36,575 { Concrete Spillway Crest | | 0+60 | 5,388.62 | 33,437 |
| +24 | 91.84 | 36,478 | | +61 | 88.56 | 33,382 |
| +25 | 91.64 | 36,285 | | +62 | 88.51 | 33,336 |
| +26 | 91.52 | 36,169 | | +63 | 88.44 | 33,272 |
| +27 | 91.43 | 36,082 | | +64 | 88.34 | 33,180 |
| +28 | 91.34 | 35,996 | | +65 | 88.26 | 33,107 |
| +29 | 91.24 | 35,899 | | +66 | 88.19 | 33,043 |
| 0+30 | 5,391.12 | 35,783 | | +67 | 88.11 | 32,969 |
| +31 | 90.02 | 35,687 | | +68 | 88.05 | 32,914 |
| +32 | 90.90 | 35,571 | | +69 | 87.96 | 32,832 |
| +33 | 90.85 | 35,523 | | 0+70 | 5,387.93 | 32,804 |
| +34 | 90.80 | 35,475 | | +71 | 87.86 | 32,740 |
| +35 | 90.80 | 35,475 | | +72 | 87.82 | 32,703 |
| +36 | 90.76 | 35,426 | | +73 | 87.80 | 32,685 |
| +75 | 87.62 | 32,520 | | +74 | 87.70 | 32,593 |
| +76 | 87.56 | 32,465 | | | | |

| SLOPE DISTANCE | ELEVATION *[Feet]* | CONTENTS *[Acre-feet]* | SLOPE DISTANCE | ELEVATION *[Feet]* | CONTENTS *[Acre-feet]* |
|---|---|---|---|---|---|
| +77 | 87.49 | 32,401 | +18 | 82.96 | 28,370 |
| +78 | 87.43 | 32,346 | +19 | 82.86 | 28,276 |
| +79 | 87.38 | 32,333 | 1+20 | 5,382.72 | 28,165 |
| 0+80 | 5,387.30 | 32,227 | +21 | 82.62 | 28,079 |
| 0+81 | 5,387.13 | 32,071 | +22 | 82.41 | 27,899 |
| +82 | 87.04 | 31,988 | +23 | 82.33 | 27,830 |
| +83 | 86.95 | 31,906 | +24 | 82.19 | 27,711 |
| +84 | 86.78 | 31,750 | +25 | 82.03 | 27,573 |
| +85 | 86.70 | 31,676 | +26 | 81.87 | 27,436 |
| +86 | 86.69 | 31,667 | +27 | 81.71 | 27,299 |
| +87 | 86.58 | 31,566 | +28 | 81.59 | 27,197 |
| +88 | 86.45 | 31,447 | +29 | 81.49 | 27,111 |
| +89 | 86.43 | 31,429 | 1+30 | 5,381.38 | 27,017 |
| 0+90 | 5,386.32 | 31,328 | +31 | 81.25 | 26,905 |
| +91 | 86.04 | 31,071 | +32 | 81.06 | 26,743 |
| +92 | 85.92 | 30,961 | +33 | 80.96 | 26,657 |
| +93 | 85.79 | 30,842 | +34 | 80.83 | 26,546 |
| +94 | 85.68 | 30,741 | +35 | 80.70 | 26,434 |
| +95 | 85.41 | 30,494 | +36 | 80.31 | 26,100 |
| +96 | 85.31 | 30,402 | +37 | 80.13 | 25,846 |
| +97 | 85.23 | 30,328 | +38 | 80.04 | 25,869 |
| +98 | 85.14 | 30,246 | +39 | 79.89 | 25,750 |
| +99 | 85.04 | 30,154 | 1+40 | 5,379.68 | 25,587 |
| 1+00 | 85.61 | 30,677 | +41 | 79.58 | 25,510 |
| 1+00 | 84.59 | 29,766 | +42 | 79.22 | 25,232 |
| +01 | 84.83 | 29,972 { Top of Pin #3 | +43 | 79.04 | 25,092 |
| +02 | 84.82 | 29,963 | +44 | 78.91 | 24,992 |
| +03 | 84.70 | 29,861 | +45 | 78.61 | 24,760 |
| +04 | 84.63 | 29,801 | +46 | 78.26 | 24,490 |
| +05 | 84.54 | 29,724 | +47 | 77.90 | 24,211 |
| +06 | 84.41 | 29,612 | +48 | 77.71 | 24,064 |
| +07 | 84.35 | 29,561 | +49 | 77.36 | 23,794 |
| +08 | 84.20 | 29,432 | 1+50 | 5,377.72 | 24,072 |
| +09 | 84.13 | 29,372 | 1+50 | 76.70 | 23,284 |
| 1+10 | 5,384.06 | 29,312 | +51 | 76.78 | 23,345 { Top of Pin #4 |
| +11 | 83.97 | 29,235 | +52 | 76.44 | 23,083 |
| +12 | 83.85 | 29,132 | +53 | 76.16 | 22,866 |
| +13 | 83.75 | 29,047 | +54 | 75.88 | 22,650 |
| +14 | 83.52 | 28,850 | +55 | 75.33 | 22,225 |
| +15 | 83.31 | 28,670 | +56 | 75.00 | 21,970 |
| +16 | 83.20 | 28,576 | +57 | 74.54 | 21,662 |
| +17 | 83.11 | 28,499 | +58 | 74.19 | 21,428 |

| SLOPE DISTANCE | ELEVATION *(Feet)* | CONTENTS *(Acre-feet)* | SLOPE DISTANCE | ELEVATION *(Feet)* | CONTENTS *(Acre-feet)* | |
|---|---|---|---|---|---|---|
| 1+59 | 5,374.00 | 21,301 | 2+00 | 63.15 | 14,717 | |
| 1+60 | 5,373.81 | 21,173 | +01 | 63.24 | 14,764 | { Top of Pin #5 |
| +61 | 73.68 | 21,086 | +02 | 62.96 | 14,618 | |
| +62 | 73.12 | 20,712 | +03 | 62.56 | 14,408 | |
| +63 | 72.98 | 20,618 | +04 | 62.32 | 14,282 | |
| +64 | 72.83 | 20,518 | +05 | 62.16 | 14,198 | |
| +65 | 72.46 | 20,270 | +06 | 62.06 | 14,146 | |
| +66 | 72.22 | 20,110 | +07 | 61.72 | 13,968 | |
| +67 | 71.81 | 19,835 | +08 | 61.46 | 13,832 | |
| +68 | 71.64 | 19,722 | +09 | 61.23 | 13,711 | |
| +69 | 71.41 | 19,568 | 2+10 | 5,361.01 | 13,596 | |
| 1+70 | 5,370.91 | 19,233 | +11 | 60.89 | 13,533 | |
| +71 | 70.64 | 19,053 | +12 | 60.64 | 13,402 | |
| +72 | 70.51 | 18,966 | +13 | 60.52 | 13,339 | |
| +73 | 70.21 | 18,765 | +14 | 60.40 | 13,276 | |
| +74 | 69.96 | 18,601 | +15 | 60.20 | 13,171 | |
| +75 | 69.80 | 18,507 | +16 | 60.04 | 13,088 | |
| +76 | 69.69 | 18,442 | +17 | 59.80 | 12,974 | |
| +77 | 69.43 | 18,290 | +18 | 59.62 | 12,891 | |
| +78 | 69.15 | 18,125 | +19 | 59.49 | 12,831 | |
| +79 | 68.84 | 17,943 | 2+20 | 5,359.34 | 12,762 | |
| 1+80 | 5,368.28 | 17,614 | +21 | 59.21 | 12,702 | |
| +81 | 68.06 | 17,485 | +22 | 58.81 | 12,517 | |
| +82 | 67.26 | 17,015 | +23 | 58.56 | 12,402 | |
| +83 | 67.12 | 16,932 | +24 | 58.21 | 12,240 | |
| +84 | 67.03 | 16,879 | +25 | 57.74 | 12,023 | |
| +85 | 66.91 | 16,809 | +26 | 57.61 | 11,963 | |
| +86 | 66.74 | 16,709 | +27 | 57.21 | 11,779 | |
| +87 | 66.39 | 16,503 | +28 | 56.71 | 11,548 | |
| +88 | 66.14 | 16,356 | +29 | 56.49 | 11,446 | |
| +89 | 65.69 | 16,092 | 2+30 | 5,356.18 | 11,303 | |
| 1+90 | 5,365.45 | 15,951 | +31 | 55.85 | 11,151 | |
| +91 | 65.29 | 15,857 | +32 | 55.46 | 11,017 | |
| +92 | 65.04 | 15,710 | +33 | 55.30 | 10,897 | |
| +93 | 64.91 | 15,639 | +34 | 55.15 | 10,828 | |
| +94 | 64.66 | 15,508 | +35 | 55.01 | 10,763 | |
| +95 | 64.51 | 15,430 | +36 | 54.84 | 10,693 | |
| +96 | 64.35 | 15,346 | +37 | 54.70 | 10,636 | |
| +97 | 64.06 | 15,194 | +38 | 54.65 | 10,615 | |
| +98 | 63.79 | 15,053 | +39 | 54.55 | 10,574 | |
| +99 | 63.62 | 14,963 | 2+40 | 5,354.50 | 10,554 | |
| 2+00 | 5,363.91 | 15,115 | +41 | 54.41 | 10,517 | |

| SLOPE DISTANCE | ELEVATION *(Feet)* | CONTENTS *(Acre-feet)* | SLOPE DISTANCE | ELEVATION *(Feet)* | CONTENTS *(Acre-feet)* |
|---|---|---|---|---|---|
| +42 | 54.36 | 10,496 | +83 | 43.00 | 6,222 |
| +43 | 54.31 | 10,476 | +84 | 42.47 | 6,048 |
| +44 | 54.26 | 10,455 | +85 | 42.18 | 5,953 |
| +45 | 54.19 | 10,426 | +86 | 41.92 | 5,868 |
| +46 | 54.14 | 10,406 | +87 | 41.51 | 5,734 |
| +47 | 54.09 | 10,385 | +88 | 41.24 | 5,646 |
| +48 | 54.07 | 10,377 | +89 | 40.85 | 5,518 |
| +49 | 54.02 | 10,357 | 2+90 | 5,340.49 | 5,401 |
| 2+50 | 5,353.86 | 10,291 | +91 | 40.30 | 5,339 |
| +51 | 53.83 | 10,279 | +92 | 39.99 | 5,238 |
| +52 | 53.77 | 10,254 | +93 | 39.73 | 5,162 |
| +53 | 53.74 | 10,242 | +94 | 39.48 | 5,090 |
| +54 | 53.67 | 10,209 | +95 | 39.23 | 5,018 |
| +55 | 54.51 | 10,558 | +96 | 38.88 | 4,916 |
| +55 | 53.53 | 10,156 | +96.5 | 38.78 | 4,880 |
| +56 | 53.41 | 10,107 { Top of Pin #6 | +97 | 38.68 | 4,858 { Top of Block A |
| +57 | 53.23 | 10,033 | +98 | 38.53 | 4,815 |
| +58 | 53.05 | 9,959 | +99 | 38.43 | 4,786 |
| +59 | 52.71 | 9,820 | 3+00 | 5,338.17 | 4,711 |
| 2+60 | 5,352.48 | 9,725 | +01 | 37.95 | 4,647 |
| +61 | 52.11 | 9,574 | +02 | 37.85 | 4,618 |
| +62 | 51.64 | 9,381 | +03 | 37.69 | 4,572 |
| +63 | 51.15 | 9,180 | +04 | 37.54 | 4,528 |
| +64 | 50.80 | 9,037 | +05 | 37.38 | 4,482 |
| +65 | 50.36 | 8,856 | 0+00 | 5,338.78 | 4,887 |
| +66 | 49.95 | 8,690 | +01 | 38.23 | 4,728 { Top of Block A |
| +67 | 49.44 | 8,503 | +02 | 38.07 | 4,682 |
| +68 | 48.94 | 8,320 | +03 | 37.86 | 4,621 |
| +69 | 48.58 | 8,188 | +04 | 37.69 | 4,572 |
| 2+70 | 5,348.20 | 8,049 | +05 | 37.41 | 4,490 |
| +71 | 47.87 | 7,928 | +06 | 37.18 | 4,424 |
| +72 | 47.61 | 7,832 | +07 | 37.06 | 4,389 |
| +73 | 47.37 | 7,744 | +08 | 36.95 | 4,357 |
| +74 | 47.03 | 7,620 | +09 | 36.63 | 4,265 |
| +75 | 46.51 | 7,429 | 0+10 | 5,336.33 | 4,178 |
| +76 | 46.25 | 7,334 | +11 | 35.83 | 4,033 |
| +77 | 46.01 | 7,246 | +12 | 35.59 | 3,963 |
| +78 | 45.77 | 7,158 | +13 | 35.46 | 3,926 |
| +79 | 45.43 | 7,033 | +14 | 34.94 | 3,777 |
| 2+80 | 5,344.78 | 6,804 | +15 | 34.73 | 3,725 |
| +81 | 44.65 | 6,761 | +16 | 34.59 | 3,689 |
| +82 | 44.55 | 6,728 | +17 | 34.45 | 3,654 |

| SLOPE DISTANCE | ELEVATION *(Feet)* | CONTENTS *(Acre-feet)* | SLOPE DISTANCE | ELEVATION *(Feet)* | CONTENTS *(Acre-feet)* |
|---|---|---|---|---|---|
| +18 | 34.32 | 3,621 | +59 | 25.61 | 1,645 |
| +19 | 34.14 | 3,576 | 0+60 | 5,325.48 | 1,619 |
| 0+20 | 5,333.97 | 3,533 | +61 | 25.42 | 1,607 |
| +21 | 33.81 | 3,493 | +62 | 25.42 | 1,607 |
| +22 | 33.48 | 3,410 | +63 | 25.22 | 1,566 |
| +23 | 33.18 | 3,335 | +64 | 24.72 | 1,480 |
| +24 | 32.86 | 3,254 | +65 | 24.58 | 1,459 |
| +25 | 32.53 | 3,169 | +66 | 24.48 | 1,444 |
| +26 | 32.14 | 3,073 | +67 | 24.43 | 1,437 |
| +27 | 31.95 | 3,025 | +68 | 24.31 | 1,419 |
| +28 | 31.73 | 2,970 | +69 | 24.25 | 1,410 |
| +29 | 31.50 | 2,912 | 0+70 | 5,324.19 | 1,401 |
| 0+30 | 5,331.28 | 2,857 | +71 | 24.08 | 1,385 |
| +31 | 31.06 | 2,801 | +72 | 23.91 | 1,360 |
| +32 | 30.83 | 2,743 | +73 | 23.81 | 1,345 |
| +33 | 30.68 | 2,706 | +74 | 23.70 | 1,328 |
| +34 | 30.54 | 2,670 | +75 | 23.56 | 1,308 |
| +35 | 30.34 | 2,620 | +76 | 23.27 | 1,264 |
| +36 | 30.11 | 2,562 | +77 | 23.16 | 1,248 |
| +37 | 29.80 | 2,494 | +78 | 23.07 | 1,235 |
| +38 | 29.52 | 2,437 | +79 | 22.88 | 1,207 |
| +39 | 29.35 | 2,403 | 0+80 | 5,322.72 | 1,183 |
| 0+40 | 5,329.22 | 2,377 | +81 | 22.59 | 1,163 |
| +41 | 29.04 | 2,340 | +82 | 22.35 | 1,128 |
| +42 | 28.81 | 2,293 | +83 | 22.10 | 1,091 |
| +43 | 28.56 | 2,243 | +84 | 21.81 | 1,048 |
| +44 | 28.14 | 2,158 | +85 | 21.60 | 1,016 |
| +45 | 5,327.95 | 2,119 | +86 | 21.44 | 993 |
| +46 | 27.72 | 2,073 | +87 | 21.34 | 978 |
| +47 | 27.42 | 2,012 | | | |
| +48 | 27.23 | 1,973 | | | |
| +49 | 27.09 | 1,945 | *Storage volumes revised 3/30/1995* | | |
| 0+50 | 5,327.12 | 1,951 | *based upon new area capacity table and* | | |
| +05 | 37.41 | 4,490 | *topographic maps completed in 1994.* | | |
| +51 | 26.78 | 1,882 { Top of Block B | | | |
| +52 | 26.66 | 1,858 | | | |
| +53 | 26.46 | 1,817 | | | |
| +54 | 26.03 | 1,730 | | | |
| +55 | 25.96 | 1,716 | | | |
| +56 | 25.84 | 1,692 | | | |
| +57 | 25.75 | 1,673 | | | |
| +58 | 25.66 | 1,655 | | | |

RUBY DAM STORAGE - ELEVATION TABLE

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5300.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5300.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5300.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5300.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5300.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5300.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5300.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5300.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5300.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5300.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5301.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5301.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5301.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5301.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5301.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5301.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 5301.6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5301.7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5301.8 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5301.9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5302.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5302.1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5302.2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5302.3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5302.4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5302.5 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5302.6 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5302.7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5302.8 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5302.9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5303.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5303.1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 5303.2 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| 5303.3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5303.4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5303.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5303.6 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5303.7 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5303.8 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5303.9 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5304.0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5304.1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5304.2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5304.3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5304.4 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5304.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5304.6 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5304.7 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5304.8 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 5304.9 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

## RUBY DAM STORAGE - ELEVATION TABLE

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5305.0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| 5305.1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| 5305.2 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 |
| 5305.3 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |
| 5305.4 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 |
| 5305.5 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 |
| 5305.6 | 9 | 9 | 9 | 9 | 9 | 9 | 10 | 10 | 10 | 10 |
| 5305.7 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 11 | 11 | 11 |
| 5305.8 | 11 | 11 | 11 | 11 | 11 | 12 | 12 | 12 | 12 | 12 |
| 5305.9 | 12 | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 13 |
| 5306.0 | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 14 | 14 |
| 5306.1 | 14 | 14 | 14 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 5306.2 | 15 | 15 | 15 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 5306.3 | 16 | 16 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| 5306.4 | 17 | 17 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| 5306.5 | 18 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| 5306.6 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 5306.7 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 22 |
| 5306.8 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 23 |
| 5306.9 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 24 | 24 |
| 5307.0 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 25 | 25 |
| 5307.1 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 26 | 26 | 26 |
| 5307.2 | 26 | 26 | 26 | 26 | 26 | 26 | 27 | 27 | 27 | 27 |
| 5307.3 | 27 | 27 | 27 | 27 | 27 | 27 | 28 | 28 | 28 | 28 |
| 5307.4 | 28 | 28 | 28 | 28 | 28 | 29 | 29 | 29 | 29 | 29 |
| 5307.5 | 29 | 29 | 29 | 29 | 29 | 30 | 30 | 30 | 30 | 30 |
| 5307.6 | 30 | 30 | 30 | 30 | 31 | 31 | 31 | 31 | 31 | 31 |
| 5307.7 | 31 | 31 | 31 | 31 | 32 | 32 | 32 | 32 | 32 | 32 |
| 5307.8 | 32 | 32 | 32 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| 5307.9 | 33 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| 5308.0 | 34 | 34 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| 5308.1 | 35 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |
| 5308.2 | 36 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| 5308.3 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 |
| 5308.4 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 40 |
| 5308.5 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 41 |
| 5308.6 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 42 | 42 |
| 5308.7 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 43 | 43 | 43 |
| 5308.8 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 44 | 44 | 44 |
| 5308.9 | 44 | 44 | 44 | 44 | 44 | 44 | 45 | 45 | 45 | 45 |
| 5309.0 | 45 | 45 | 45 | 45 | 45 | 45 | 46 | 46 | 46 | 46 |
| 5309.1 | 46 | 46 | 46 | 46 | 46 | 47 | 47 | 47 | 47 | 47 |
| 5309.2 | 47 | 47 | 47 | 47 | 47 | 48 | 48 | 48 | 48 | 48 |
| 5309.3 | 48 | 48 | 48 | 48 | 49 | 49 | 49 | 49 | 49 | 49 |
| 5309.4 | 49 | 49 | 49 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| 5309.5 | 50 | 50 | 50 | 51 | 51 | 51 | 51 | 51 | 51 | 51 |
| 5309.6 | 51 | 51 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 |
| 5309.7 | 52 | 52 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 |
| 5309.8 | 53 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 |
| 5309.9 | 54 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |

## TABLE A-3 continued
## RUBY DAM STORAGE - ELEVATION TABLE

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5315.0 | 286 | 287 | 288 | 289 | 289 | 290 | 291 | 292 | 293 | 294 |
| 5315.1 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 |
| 5315.2 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 |
| 5315.3 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 |
| 5315.4 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 |
| 5315.5 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 |
| 5315.6 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 |
| 5315.7 | 355 | 356 | 357 | 358 | 359 | 359 | 360 | 361 | 362 | 363 |
| 5315.8 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 |
| 5315.9 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 |
| 5316.0 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 |
| 5316.1 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 |
| 5316.2 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 |
| 5316.3 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 |
| 5316.4 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 |
| 5316.5 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 |
| 5316.6 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 |
| 5316.7 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 |
| 5316.8 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 |
| 5316.9 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 |
| 5317.0 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 |
| 5317.1 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 |
| 5317.2 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 |
| 5317.3 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 |
| 5317.4 | 522 | 523 | 524 | 525 | 526 | 527 | 528 | 529 | 530 | 531 |
| 5317.5 | 532 | 533 | 534 | 535 | 536 | 537 | 538 | 539 | 540 | 541 |
| 5317.6 | 542 | 543 | 544 | 545 | 546 | 547 | 548 | 549 | 550 | 551 |
| 5317.7 | 552 | 553 | 554 | 555 | 556 | 557 | 558 | 559 | 560 | 561 |
| 5317.8 | 562 | 563 | 564 | 565 | 566 | 567 | 568 | 569 | 570 | 571 |
| 5317.9 | 571 | 572 | 573 | 574 | 575 | 576 | 577 | 578 | 579 | 580 |
| 5318.0 | 581 | 582 | 583 | 584 | 585 | 586 | 587 | 588 | 589 | 590 |
| 5318.1 | 591 | 592 | 593 | 594 | 595 | 596 | 597 | 598 | 599 | 600 |
| 5318.2 | 601 | 602 | 603 | 604 | 605 | 606 | 607 | 608 | 609 | 610 |
| 5318.3 | 611 | 612 | 613 | 614 | 615 | 616 | 617 | 618 | 619 | 620 |
| 5318.4 | 621 | 622 | 623 | 624 | 625 | 626 | 627 | 628 | 629 | 630 |
| 5318.5 | 631 | 632 | 633 | 634 | 635 | 636 | 637 | 638 | 639 | 640 |
| 5318.6 | 641 | 641 | 642 | 643 | 644 | 645 | 646 | 647 | 648 | 649 |
| 5318.7 | 650 | 651 | 652 | 653 | 654 | 655 | 656 | 657 | 658 | 659 |
| 5318.8 | 660 | 661 | 662 | 663 | 664 | 665 | 666 | 667 | 668 | 669 |
| 5318.9 | 670 | 671 | 672 | 673 | 674 | 675 | 676 | 677 | 678 | 679 |
| 5319.0 | 680 | 681 | 682 | 683 | 684 | 685 | 686 | 687 | 688 | 689 |
| 5319.1 | 690 | 691 | 692 | 693 | 694 | 695 | 696 | 697 | 698 | 699 |
| 5319.2 | 700 | 701 | 702 | 703 | 704 | 705 | 706 | 707 | 708 | 709 |
| 5319.3 | 710 | 711 | 712 | 713 | 714 | 715 | 716 | 717 | 718 | 719 |
| 5319.4 | 719 | 720 | 721 | 722 | 723 | 724 | 725 | 726 | 727 | 728 |
| 5319.5 | 729 | 730 | 731 | 732 | 733 | 734 | 735 | 736 | 737 | 738 |
| 5319.6 | 739 | 740 | 741 | 742 | 743 | 744 | 745 | 746 | 747 | 748 |
| 5319.7 | 749 | 750 | 751 | 752 | 753 | 754 | 755 | 756 | 757 | 758 |
| 5319.8 | 759 | 760 | 761 | 762 | 763 | 764 | 765 | 766 | 767 | 768 |
| 5319.9 | 769 | 770 | 771 | 772 | 773 | 774 | 775 | 776 | 777 | 778 |

## RUBY DAM STORAGE - ELEVATION TABLE

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5320.0 | 779 | 780 | 782 | 783 | 784 | 786 | 787 | 789 | 790 | 792 |
| 5320.1 | 793 | 795 | 796 | 798 | 799 | 801 | 802 | 804 | 805 | 807 |
| 5320.2 | 808 | 810 | 811 | 813 | 814 | 816 | 817 | 819 | 820 | 822 |
| 5320.3 | 823 | 825 | 826 | 828 | 829 | 831 | 832 | 834 | 835 | 837 |
| 5320.4 | 838 | 839 | 841 | 842 | 844 | 845 | 847 | 848 | 850 | 851 |
| 5320.5 | 853 | 854 | 856 | 857 | 859 | 860 | 862 | 863 | 865 | 866 |
| 5320.6 | 868 | 869 | 871 | 872 | 874 | 875 | 877 | 878 | 880 | 881 |
| 5320.7 | 883 | 884 | 886 | 887 | 889 | 890 | 891 | 893 | 894 | 896 |
| 5320.8 | 897 | 899 | 900 | 902 | 903 | 905 | 906 | 908 | 909 | 911 |
| 5320.9 | 912 | 914 | 915 | 917 | 918 | 920 | 921 | 923 | 924 | 926 |
| 5321.0 | 927 | 929 | 930 | 932 | 933 | 935 | 936 | 938 | 939 | 941 |
| 5321.1 | 942 | 943 | 945 | 946 | 948 | 949 | 951 | 952 | 954 | 955 |
| 5321.2 | 957 | 958 | 960 | 961 | 963 | 964 | 966 | 967 | 969 | 970 |
| 5321.3 | 972 | 973 | 975 | 976 | 978 | 979 | 981 | 982 | 984 | 985 |
| 5321.4 | 987 | 988 | 990 | 991 | 993 | 994 | 996 | 997 | 998 | 1000 |
| 5321.5 | 1001 | 1003 | 1004 | 1006 | 1007 | 1009 | 1010 | 1012 | 1013 | 1015 |
| 5321.6 | 1016 | 1018 | 1019 | 1021 | 1022 | 1024 | 1025 | 1027 | 1028 | 1030 |
| 5321.7 | 1031 | 1033 | 1034 | 1036 | 1037 | 1039 | 1040 | 1042 | 1043 | 1045 |
| 5321.8 | 1046 | 1048 | 1049 | 1050 | 1052 | 1053 | 1055 | 1056 | 1058 | 1059 |
| 5321.9 | 1061 | 1062 | 1064 | 1065 | 1067 | 1068 | 1070 | 1071 | 1073 | 1074 |
| 5322.0 | 1076 | 1077 | 1079 | 1080 | 1082 | 1083 | 1085 | 1086 | 1088 | 1089 |
| 5322.1 | 1091 | 1092 | 1094 | 1095 | 1097 | 1098 | 1100 | 1101 | 1102 | 1104 |
| 5322.2 | 1105 | 1107 | 1108 | 1110 | 1111 | 1113 | 1114 | 1116 | 1117 | 1119 |
| 5322.3 | 1120 | 1122 | 1123 | 1125 | 1126 | 1128 | 1129 | 1131 | 1132 | 1134 |
| 5322.4 | 1135 | 1137 | 1138 | 1140 | 1141 | 1143 | 1144 | 1146 | 1147 | 1149 |
| 5322.5 | 1150 | 1152 | 1153 | 1155 | 1156 | 1157 | 1159 | 1160 | 1162 | 1163 |
| 5322.6 | 1165 | 1166 | 1168 | 1169 | 1171 | 1172 | 1174 | 1175 | 1177 | 1178 |
| 5322.7 | 1180 | 1181 | 1183 | 1184 | 1186 | 1187 | 1189 | 1190 | 1192 | 1193 |
| 5322.8 | 1195 | 1196 | 1198 | 1199 | 1201 | 1202 | 1204 | 1205 | 1207 | 1208 |
| 5322.9 | 1209 | 1211 | 1212 | 1214 | 1215 | 1217 | 1218 | 1220 | 1221 | 1223 |
| 5323.0 | 1224 | 1226 | 1227 | 1229 | 1230 | 1232 | 1233 | 1235 | 1236 | 1238 |
| 5323.1 | 1239 | 1241 | 1242 | 1244 | 1245 | 1247 | 1248 | 1250 | 1251 | 1253 |
| 5323.2 | 1254 | 1256 | 1257 | 1259 | 1260 | 1261 | 1263 | 1264 | 1266 | 1267 |
| 5323.3 | 1269 | 1270 | 1272 | 1273 | 1275 | 1276 | 1278 | 1279 | 1281 | 1282 |
| 5323.4 | 1284 | 1285 | 1287 | 1288 | 1290 | 1291 | 1293 | 1294 | 1296 | 1297 |
| 5323.5 | 1299 | 1300 | 1302 | 1303 | 1305 | 1306 | 1308 | 1309 | 1311 | 1312 |
| 5323.6 | 1314 | 1315 | 1316 | 1318 | 1319 | 1321 | 1322 | 1324 | 1325 | 1327 |
| 5323.7 | 1328 | 1330 | 1331 | 1333 | 1334 | 1336 | 1337 | 1339 | 1340 | 1342 |
| 5323.8 | 1343 | 1345 | 1346 | 1348 | 1349 | 1351 | 1352 | 1354 | 1355 | 1357 |
| 5323.9 | 1358 | 1360 | 1361 | 1363 | 1364 | 1366 | 1367 | 1368 | 1370 | 1371 |
| 5324.0 | 1373 | 1374 | 1376 | 1377 | 1379 | 1380 | 1382 | 1383 | 1385 | 1386 |
| 5324.1 | 1388 | 1389 | 1391 | 1392 | 1394 | 1395 | 1397 | 1398 | 1400 | 1401 |
| 5324.2 | 1403 | 1404 | 1406 | 1407 | 1409 | 1410 | 1412 | 1413 | 1415 | 1416 |
| 5324.3 | 1418 | 1419 | 1421 | 1422 | 1423 | 1425 | 1426 | 1428 | 1429 | 1431 |
| 5324.4 | 1432 | 1434 | 1435 | 1437 | 1438 | 1440 | 1441 | 1443 | 1444 | 1446 |
| 5324.5 | 1447 | 1449 | 1450 | 1452 | 1453 | 1455 | 1456 | 1458 | 1459 | 1461 |
| 5324.6 | 1462 | 1464 | 1465 | 1467 | 1468 | 1470 | 1471 | 1473 | 1474 | 1475 |
| 5324.7 | 1477 | 1478 | 1480 | 1481 | 1483 | 1484 | 1486 | 1487 | 1489 | 1490 |
| 5324.8 | 1492 | 1493 | 1495 | 1496 | 1498 | 1499 | 1501 | 1502 | 1504 | 1505 |
| 5324.9 | 1507 | 1508 | 1510 | 1511 | 1513 | 1514 | 1516 | 1517 | 1519 | 1520 |

RUBY DAM STORAGE - ELEVATION TABLE

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5325.0 | 1522 | 1524 | 1526 | 1528 | 1530 | 1532 | 1534 | 1536 | 1538 | 1540 |
| 5325.1 | 1542 | 1544 | 1546 | 1548 | 1550 | 1552 | 1554 | 1556 | 1558 | 1560 |
| 5325.2 | 1562 | 1564 | 1566 | 1568 | 1570 | 1572 | 1574 | 1576 | 1578 | 1580 |
| 5325.3 | 1582 | 1584 | 1586 | 1588 | 1590 | 1592 | 1594 | 1597 | 1599 | 1601 |
| 5325.4 | 1603 | 1605 | 1607 | 1609 | 1611 | 1613 | 1615 | 1617 | 1619 | 1621 |
| 5325.5 | 1623 | 1625 | 1627 | 1629 | 1631 | 1633 | 1635 | 1637 | 1639 | 1641 |
| 5325.6 | 1643 | 1645 | 1647 | 1649 | 1651 | 1653 | 1655 | 1657 | 1659 | 1661 |
| 5325.7 | 1663 | 1665 | 1667 | 1669 | 1671 | 1673 | 1676 | 1678 | 1680 | 1682 |
| 5325.8 | 1684 | 1686 | 1688 | 1690 | 1692 | 1694 | 1696 | 1698 | 1700 | 1702 |
| 5325.9 | 1704 | 1706 | 1708 | 1710 | 1712 | 1714 | 1716 | 1718 | 1720 | 1722 |
| 5326.0 | 1724 | 1726 | 1728 | 1730 | 1732 | 1734 | 1736 | 1738 | 1740 | 1742 |
| 5326.1 | 1744 | 1746 | 1748 | 1750 | 1753 | 1755 | 1757 | 1759 | 1761 | 1763 |
| 5326.2 | 1765 | 1767 | 1769 | 1771 | 1773 | 1775 | 1777 | 1779 | 1781 | 1783 |
| 5326.3 | 1785 | 1787 | 1789 | 1791 | 1793 | 1795 | 1797 | 1799 | 1801 | 1803 |
| 5326.4 | 1805 | 1807 | 1809 | 1811 | 1813 | 1815 | 1817 | 1819 | 1821 | 1823 |
| 5326.5 | 1825 | 1827 | 1830 | 1832 | 1834 | 1836 | 1838 | 1840 | 1842 | 1844 |
| 5326.6 | 1846 | 1848 | 1850 | 1852 | 1854 | 1856 | 1858 | 1860 | 1862 | 1864 |
| 5326.7 | 1866 | 1868 | 1870 | 1872 | 1874 | 1876 | 1878 | 1880 | 1882 | 1884 |
| 5326.8 | 1886 | 1888 | 1890 | 1892 | 1894 | 1896 | 1898 | 1900 | 1902 | 1904 |
| 5326.9 | 1906 | 1909 | 1911 | 1913 | 1915 | 1917 | 1919 | 1921 | 1923 | 1925 |
| 5327.0 | 1927 | 1929 | 1931 | 1933 | 1935 | 1937 | 1939 | 1941 | 1943 | 1945 |
| 5327.1 | 1947 | 1949 | 1951 | 1953 | 1955 | 1957 | 1959 | 1961 | 1963 | 1965 |
| 5327.2 | 1967 | 1969 | 1971 | 1973 | 1975 | 1977 | 1979 | 1981 | 1983 | 1986 |
| 5327.3 | 1988 | 1990 | 1992 | 1994 | 1996 | 1998 | 2000 | 2002 | 2004 | 2006 |
| 5327.4 | 2008 | 2010 | 2012 | 2014 | 2016 | 2018 | 2020 | 2022 | 2024 | 2026 |
| 5327.5 | 2028 | 2030 | 2032 | 2034 | 2036 | 2038 | 2040 | 2042 | 2044 | 2046 |
| 5327.6 | 2048 | 2050 | 2052 | 2054 | 2056 | 2058 | 2060 | 2062 | 2065 | 2067 |
| 5327.7 | 2069 | 2071 | 2073 | 2075 | 2077 | 2079 | 2081 | 2083 | 2085 | 2087 |
| 5327.8 | 2089 | 2091 | 2093 | 2095 | 2097 | 2099 | 2101 | 2103 | 2105 | 2107 |
| 5327.9 | 2109 | 2111 | 2113 | 2115 | 2117 | 2119 | 2121 | 2123 | 2125 | 2127 |
| 5328.0 | 2129 | 2131 | 2133 | 2135 | 2137 | 2139 | 2142 | 2144 | 2146 | 2148 |
| 5328.1 | 2150 | 2152 | 2154 | 2156 | 2158 | 2160 | 2162 | 2164 | 2166 | 2168 |
| 5328.2 | 2170 | 2172 | 2174 | 2176 | 2178 | 2180 | 2182 | 2184 | 2186 | 2188 |
| 5328.3 | 2190 | 2192 | 2194 | 2196 | 2198 | 2200 | 2202 | 2204 | 2206 | 2208 |
| 5328.4 | 2210 | 2212 | 2214 | 2216 | 2218 | 2221 | 2223 | 2225 | 2227 | 2229 |
| 5328.5 | 2231 | 2233 | 2235 | 2237 | 2239 | 2241 | 2243 | 2245 | 2247 | 2249 |
| 5328.6 | 2251 | 2253 | 2255 | 2257 | 2259 | 2261 | 2263 | 2265 | 2267 | 2269 |
| 5328.7 | 2271 | 2273 | 2275 | 2277 | 2279 | 2281 | 2283 | 2285 | 2287 | 2289 |
| 5328.8 | 2291 | 2293 | 2295 | 2298 | 2300 | 2302 | 2304 | 2306 | 2308 | 2310 |
| 5328.9 | 2312 | 2314 | 2316 | 2318 | 2320 | 2322 | 2324 | 2326 | 2328 | 2330 |
| 5329.0 | 2332 | 2334 | 2336 | 2338 | 2340 | 2342 | 2344 | 2346 | 2348 | 2350 |
| 5329.1 | 2352 | 2354 | 2356 | 2358 | 2360 | 2362 | 2364 | 2366 | 2368 | 2370 |
| 5329.2 | 2372 | 2374 | 2377 | 2379 | 2381 | 2383 | 2385 | 2387 | 2389 | 2391 |
| 5329.3 | 2393 | 2395 | 2397 | 2399 | 2401 | 2403 | 2405 | 2407 | 2409 | 2411 |
| 5329.4 | 2413 | 2415 | 2417 | 2419 | 2421 | 2423 | 2425 | 2427 | 2429 | 2431 |
| 5329.5 | 2433 | 2435 | 2437 | 2439 | 2441 | 2443 | 2445 | 2447 | 2449 | 2451 |
| 5329.6 | 2454 | 2456 | 2458 | 2460 | 2462 | 2464 | 2466 | 2468 | 2470 | 2472 |
| 5329.7 | 2474 | 2476 | 2478 | 2480 | 2482 | 2484 | 2486 | 2488 | 2490 | 2492 |
| 5329.8 | 2494 | 2496 | 2498 | 2500 | 2502 | 2504 | 2506 | 2508 | 2510 | 2512 |
| 5329.9 | 2514 | 2516 | 2518 | 2520 | 2522 | 2524 | 2526 | 2528 | 2530 | 2533 |

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5330.0 | 2535 | 2537 | 2540 | 2542 | 2545 | 2547 | 2550 | 2552 | 2555 | 2557 |
| 5330.1 | 2560 | 2562 | 2565 | 2567 | 2570 | 2572 | 2575 | 2577 | 2580 | 2582 |
| 5330.2 | 2585 | 2587 | 2590 | 2592 | 2595 | 2597 | 2600 | 2602 | 2605 | 2608 |
| 5330.3 | 2610 | 2613 | 2615 | 2618 | 2620 | 2623 | 2625 | 2628 | 2630 | 2633 |
| 5330.4 | 2635 | 2638 | 2640 | 2643 | 2645 | 2648 | 2650 | 2653 | 2655 | 2658 |
| 5330.5 | 2660 | 2663 | 2665 | 2668 | 2670 | 2673 | 2675 | 2678 | 2680 | 2683 |
| 5330.6 | 2686 | 2688 | 2691 | 2693 | 2696 | 2698 | 2701 | 2703 | 2706 | 2708 |
| 5330.7 | 2711 | 2713 | 2716 | 2718 | 2721 | 2723 | 2726 | 2728 | 2731 | 2733 |
| 5330.8 | 2736 | 2738 | 2741 | 2743 | 2746 | 2748 | 2751 | 2753 | 2756 | 2758 |
| 5330.9 | 2761 | 2764 | 2766 | 2769 | 2771 | 2774 | 2776 | 2779 | 2781 | 2784 |
| | | | | | | | | | | |
| 5331.0 | 2786 | 2789 | 2791 | 2794 | 2796 | 2799 | 2801 | 2804 | 2806 | 2809 |
| 5331.1 | 2811 | 2814 | 2816 | 2819 | 2821 | 2824 | 2826 | 2829 | 2831 | 2834 |
| 5331.2 | 2836 | 2839 | 2842 | 2844 | 2847 | 2849 | 2852 | 2854 | 2857 | 2859 |
| 5331.3 | 2862 | 2864 | 2867 | 2869 | 2872 | 2874 | 2877 | 2879 | 2882 | 2884 |
| 5331.4 | 2887 | 2889 | 2892 | 2894 | 2897 | 2899 | 2902 | 2904 | 2907 | 2909 |
| 5331.5 | 2912 | 2914 | 2917 | 2919 | 2922 | 2925 | 2927 | 2930 | 2932 | 2935 |
| 5331.6 | 2937 | 2940 | 2942 | 2945 | 2947 | 2950 | 2952 | 2955 | 2957 | 2960 |
| 5331.7 | 2962 | 2965 | 2967 | 2970 | 2972 | 2975 | 2977 | 2980 | 2982 | 2985 |
| 5331.8 | 2987 | 2990 | 2992 | 2995 | 2997 | 3000 | 3003 | 3005 | 3008 | 3010 |
| 5331.9 | 3013 | 3015 | 3018 | 3020 | 3023 | 3025 | 3028 | 3030 | 3033 | 3035 |
| | | | | | | | | | | |
| 5332.0 | 3038 | 3040 | 3043 | 3045 | 3048 | 3050 | 3053 | 3055 | 3058 | 3060 |
| 5332.1 | 3063 | 3065 | 3068 | 3070 | 3073 | 3075 | 3078 | 3081 | 3083 | 3086 |
| 5332.2 | 3088 | 3091 | 3093 | 3096 | 3098 | 3101 | 3103 | 3106 | 3108 | 3111 |
| 5332.3 | 3113 | 3116 | 3118 | 3121 | 3123 | 3126 | 3128 | 3131 | 3133 | 3136 |
| 5332.4 | 3138 | 3141 | 3143 | 3146 | 3148 | 3151 | 3153 | 3156 | 3159 | 3161 |
| 5332.5 | 3164 | 3166 | 3169 | 3171 | 3174 | 3176 | 3179 | 3181 | 3184 | 3186 |
| 5332.6 | 3189 | 3191 | 3194 | 3196 | 3199 | 3201 | 3204 | 3206 | 3209 | 3211 |
| 5332.7 | 3214 | 3216 | 3219 | 3221 | 3224 | 3226 | 3229 | 3231 | 3234 | 3237 |
| 5332.8 | 3239 | 3242 | 3244 | 3247 | 3249 | 3252 | 3254 | 3257 | 3259 | 3262 |
| 5332.9 | 3264 | 3267 | 3269 | 3272 | 3274 | 3277 | 3279 | 3282 | 3284 | 3287 |
| | | | | | | | | | | |
| 5333.0 | 3289 | 3292 | 3294 | 3297 | 3299 | 3302 | 3304 | 3307 | 3309 | 3312 |
| 5333.1 | 3315 | 3317 | 3320 | 3322 | 3325 | 3327 | 3330 | 3332 | 3335 | 3337 |
| 5333.2 | 3340 | 3342 | 3345 | 3347 | 3350 | 3352 | 3355 | 3357 | 3360 | 3362 |
| 5333.3 | 3365 | 3367 | 3370 | 3372 | 3375 | 3377 | 3380 | 3382 | 3385 | 3387 |
| 5333.4 | 3390 | 3393 | 3395 | 3398 | 3400 | 3403 | 3405 | 3408 | 3410 | 3413 |
| 5333.5 | 3415 | 3418 | 3420 | 3423 | 3425 | 3428 | 3430 | 3433 | 3435 | 3438 |
| 5333.6 | 3440 | 3443 | 3445 | 3448 | 3450 | 3453 | 3455 | 3458 | 3460 | 3463 |
| 5333.7 | 3465 | 3468 | 3471 | 3473 | 3476 | 3478 | 3481 | 3483 | 3486 | 3488 |
| 5333.8 | 3491 | 3493 | 3496 | 3498 | 3501 | 3503 | 3506 | 3508 | 3511 | 3513 |
| 5333.9 | 3516 | 3518 | 3521 | 3523 | 3526 | 3528 | 3531 | 3533 | 3536 | 3538 |
| | | | | | | | | | | |
| 5334.0 | 3541 | 3543 | 3546 | 3548 | 3551 | 3554 | 3556 | 3559 | 3561 | 3564 |
| 5334.1 | 3566 | 3569 | 3571 | 3574 | 3576 | 3579 | 3581 | 3584 | 3586 | 3589 |
| 5334.2 | 3591 | 3594 | 3596 | 3599 | 3601 | 3604 | 3606 | 3609 | 3611 | 3614 |
| 5334.3 | 3616 | 3619 | 3621 | 3624 | 3626 | 3629 | 3632 | 3634 | 3637 | 3639 |
| 5334.4 | 3642 | 3644 | 3647 | 3649 | 3652 | 3654 | 3657 | 3659 | 3662 | 3664 |
| 5334.5 | 3667 | 3669 | 3672 | 3674 | 3677 | 3679 | 3682 | 3684 | 3687 | 3689 |
| 5334.6 | 3692 | 3694 | 3697 | 3699 | 3702 | 3704 | 3707 | 3710 | 3712 | 3715 |
| 5334.7 | 3717 | 3720 | 3722 | 3725 | 3727 | 3730 | 3732 | 3735 | 3737 | 3740 |
| 5334.8 | 3742 | 3745 | 3747 | 3750 | 3752 | 3755 | 3757 | 3760 | 3762 | 3765 |
| 5334.9 | 3767 | 3770 | 3772 | 3775 | 3777 | 3780 | 3782 | 3785 | 3788 | 3790 |

## RUBY DAM STORAGE - ELEVATION TABLE

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5335.0 | 3793 | 3795 | 3798 | 3801 | 3804 | 3807 | 3810 | 3813 | 3816 | 3819 |
| 5335.1 | 3822 | 3824 | 3827 | 3830 | 3833 | 3836 | 3839 | 3842 | 3845 | 3848 |
| 5335.2 | 3850 | 3853 | 3856 | 3859 | 3862 | 3865 | 3868 | 3871 | 3874 | 3877 |
| 5335.3 | 3879 | 3882 | 3885 | 3888 | 3891 | 3894 | 3897 | 3900 | 3903 | 3905 |
| 5335.4 | 3908 | 3911 | 3914 | 3917 | 3920 | 3923 | 3926 | 3929 | 3932 | 3934 |
| 5335.5 | 3937 | 3940 | 3943 | 3946 | 3949 | 3952 | 3955 | 3958 | 3961 | 3963 |
| 5335.6 | 3966 | 3969 | 3972 | 3975 | 3978 | 3981 | 3984 | 3987 | 3989 | 3992 |
| 5335.7 | 3995 | 3998 | 4001 | 4004 | 4007 | 4010 | 4013 | 4016 | 4018 | 4021 |
| 5335.8 | 4024 | 4027 | 4030 | 4033 | 4036 | 4039 | 4042 | 4045 | 4047 | 4050 |
| 5335.9 | 4053 | 4056 | 4059 | 4062 | 4065 | 4068 | 4071 | 4073 | 4076 | 4079 |
| 5336.0 | 4082 | 4085 | 4088 | 4091 | 4094 | 4097 | 4100 | 4102 | 4105 | 4108 |
| 5336.1 | 4111 | 4114 | 4117 | 4120 | 4123 | 4126 | 4128 | 4131 | 4134 | 4137 |
| 5336.2 | 4140 | 4143 | 4146 | 4149 | 4152 | 4155 | 4157 | 4160 | 4163 | 4166 |
| 5336.3 | 4169 | 4172 | 4175 | 4178 | 4181 | 4184 | 4186 | 4189 | 4192 | 4195 |
| 5336.4 | 4198 | 4201 | 4204 | 4207 | 4210 | 4212 | 4215 | 4218 | 4221 | 4224 |
| 5336.5 | 4227 | 4230 | 4233 | 4236 | 4239 | 4241 | 4244 | 4247 | 4250 | 4253 |
| 5336.6 | 4256 | 4259 | 4262 | 4265 | 4267 | 4270 | 4273 | 4276 | 4279 | 4282 |
| 5336.7 | 4285 | 4288 | 4291 | 4294 | 4296 | 4299 | 4302 | 4305 | 4308 | 4311 |
| 5336.8 | 4314 | 4317 | 4320 | 4323 | 4325 | 4328 | 4331 | 4334 | 4337 | 4340 |
| 5336.9 | 4343 | 4346 | 4349 | 4351 | 4354 | 4357 | 4360 | 4363 | 4366 | 4369 |
| 5337.0 | 4372 | 4375 | 4378 | 4380 | 4383 | 4386 | 4389 | 4392 | 4395 | 4398 |
| 5337.1 | 4401 | 4404 | 4407 | 4409 | 4412 | 4415 | 4418 | 4421 | 4424 | 4427 |
| 5337.2 | 4430 | 4433 | 4435 | 4438 | 4441 | 4444 | 4447 | 4450 | 4453 | 4456 |
| 5337.3 | 4459 | 4462 | 4464 | 4467 | 4470 | 4473 | 4476 | 4479 | 4482 | 4485 |
| 5337.4 | 4488 | 4490 | 4493 | 4496 | 4499 | 4502 | 4505 | 4508 | 4511 | 4514 |
| 5337.5 | 4517 | 4519 | 4522 | 4525 | 4528 | 4531 | 4534 | 4537 | 4540 | 4543 |
| 5337.6 | 4546 | 4548 | 4551 | 4554 | 4557 | 4560 | 4563 | 4566 | 4569 | 4572 |
| 5337.7 | 4574 | 4577 | 4580 | 4583 | 4586 | 4589 | 4592 | 4595 | 4598 | 4601 |
| 5337.8 | 4603 | 4606 | 4609 | 4612 | 4615 | 4618 | 4621 | 4624 | 4627 | 4629 |
| 5337.9 | 4632 | 4635 | 4638 | 4641 | 4644 | 4647 | 4650 | 4653 | 4656 | 4658 |
| 5338.0 | 4661 | 4664 | 4667 | 4670 | 4673 | 4676 | 4679 | 4682 | 4685 | 4687 |
| 5338.1 | 4690 | 4693 | 4696 | 4699 | 4702 | 4705 | 4708 | 4711 | 4713 | 4716 |
| 5338.2 | 4719 | 4722 | 4725 | 4728 | 4731 | 4734 | 4737 | 4740 | 4742 | 4745 |
| 5338.3 | 4748 | 4751 | 4754 | 4757 | 4760 | 4763 | 4766 | 4769 | 4771 | 4774 |
| 5338.4 | 4777 | 4780 | 4783 | 4786 | 4789 | 4792 | 4795 | 4797 | 4800 | 4803 |
| 5338.5 | 4806 | 4809 | 4812 | 4815 | 4818 | 4821 | 4824 | 4826 | 4829 | 4832 |
| 5338.6 | 4835 | 4838 | 4841 | 4844 | 4847 | 4850 | 4852 | 4855 | 4858 | 4861 |
| 5338.7 | 4864 | 4867 | 4870 | 4873 | 4876 | 4879 | 4881 | 4884 | 4887 | 4890 |
| 5338.8 | 4893 | 4896 | 4899 | 4902 | 4905 | 4908 | 4910 | 4913 | 4916 | 4919 |
| 5338.9 | 4922 | 4925 | 4928 | 4931 | 4934 | 4936 | 4939 | 4942 | 4945 | 4948 |
| 5339.0 | 4951 | 4954 | 4957 | 4960 | 4963 | 4965 | 4968 | 4971 | 4974 | 4977 |
| 5339.1 | 4980 | 4983 | 4986 | 4989 | 4991 | 4994 | 4997 | 5000 | 5003 | 5006 |
| 5339.2 | 5009 | 5012 | 5015 | 5018 | 5020 | 5023 | 5026 | 5029 | 5032 | 5035 |
| 5339.3 | 5038 | 5041 | 5044 | 5047 | 5049 | 5052 | 5055 | 5058 | 5061 | 5064 |
| 5339.4 | 5067 | 5070 | 5073 | 5075 | 5078 | 5081 | 5084 | 5087 | 5090 | 5093 |
| 5339.5 | 5096 | 5099 | 5102 | 5104 | 5107 | 5110 | 5113 | 5116 | 5119 | 5122 |
| 5339.6 | 5125 | 5128 | 5131 | 5133 | 5136 | 5139 | 5142 | 5145 | 5148 | 5151 |
| 5339.7 | 5154 | 5157 | 5159 | 5162 | 5165 | 5168 | 5171 | 5174 | 5177 | 5180 |
| 5339.8 | 5183 | 5186 | 5188 | 5191 | 5194 | 5197 | 5200 | 5203 | 5206 | 5209 |
| 5339.9 | 5212 | 5214 | 5217 | 5220 | 5223 | 5226 | 5229 | 5232 | 5235 | 5238 |

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5340.0 | 5241 | 5244 | 5247 | 5250 | 5254 | 5257 | 5260 | 5263 | 5267 | 5270 |
| 5340.1 | 5273 | 5277 | 5280 | 5283 | 5286 | 5290 | 5293 | 5296 | 5299 | 5303 |
| 5340.2 | 5306 | 5309 | 5312 | 5316 | 5319 | 5322 | 5326 | 5329 | 5332 | 5335 |
| 5340.3 | 5339 | 5342 | 5345 | 5348 | 5352 | 5355 | 5358 | 5362 | 5365 | 5368 |
| 5340.4 | 5371 | 5375 | 5378 | 5381 | 5384 | 5388 | 5391 | 5394 | 5398 | 5401 |
| 5340.5 | 5404 | 5407 | 5411 | 5414 | 5417 | 5420 | 5424 | 5427 | 5430 | 5433 |
| 5340.6 | 5437 | 5440 | 5443 | 5447 | 5450 | 5453 | 5456 | 5460 | 5463 | 5466 |
| 5340.7 | 5469 | 5473 | 5476 | 5479 | 5483 | 5486 | 5489 | 5492 | 5496 | 5499 |
| 5340.8 | 5502 | 5505 | 5509 | 5512 | 5515 | 5518 | 5522 | 5525 | 5528 | 5532 |
| 5340.9 | 5535 | 5538 | 5541 | 5545 | 5548 | 5551 | 5554 | 5558 | 5561 | 5564 |
| 5341.0 | 5568 | 5571 | 5574 | 5577 | 5581 | 5584 | 5587 | 5590 | 5594 | 5597 |
| 5341.1 | 5600 | 5604 | 5607 | 5610 | 5613 | 5617 | 5620 | 5623 | 5626 | 5630 |
| 5341.2 | 5633 | 5636 | 5639 | 5643 | 5646 | 5649 | 5653 | 5656 | 5659 | 5662 |
| 5341.3 | 5666 | 5669 | 5672 | 5675 | 5679 | 5682 | 5685 | 5689 | 5692 | 5695 |
| 5341.4 | 5698 | 5702 | 5705 | 5708 | 5711 | 5715 | 5718 | 5721 | 5725 | 5728 |
| 5341.5 | 5731 | 5734 | 5738 | 5741 | 5744 | 5747 | 5751 | 5754 | 5757 | 5760 |
| 5341.6 | 5764 | 5767 | 5770 | 5774 | 5777 | 5780 | 5783 | 5787 | 5790 | 5793 |
| 5341.7 | 5796 | 5800 | 5803 | 5806 | 5810 | 5813 | 5816 | 5819 | 5823 | 5826 |
| 5341.8 | 5829 | 5832 | 5836 | 5839 | 5842 | 5845 | 5849 | 5852 | 5855 | 5859 |
| 5341.9 | 5862 | 5865 | 5868 | 5872 | 5875 | 5878 | 5881 | 5885 | 5888 | 5891 |
| 5342.0 | 5895 | 5898 | 5901 | 5904 | 5908 | 5911 | 5914 | 5917 | 5921 | 5924 |
| 5342.1 | 5927 | 5931 | 5934 | 5937 | 5940 | 5944 | 5947 | 5950 | 5953 | 5957 |
| 5342.2 | 5960 | 5963 | 5966 | 5970 | 5973 | 5976 | 5980 | 5983 | 5986 | 5989 |
| 5342.3 | 5993 | 5996 | 5999 | 6002 | 6006 | 6009 | 6012 | 6016 | 6019 | 6022 |
| 5342.4 | 6025 | 6029 | 6032 | 6035 | 6038 | 6042 | 6045 | 6048 | 6052 | 6055 |
| 5342.5 | 6058 | 6061 | 6065 | 6068 | 6071 | 6074 | 6078 | 6081 | 6084 | 6087 |
| 5342.6 | 6091 | 6094 | 6097 | 6101 | 6104 | 6107 | 6110 | 6114 | 6117 | 6120 |
| 5342.7 | 6123 | 6127 | 6130 | 6133 | 6137 | 6140 | 6143 | 6146 | 6150 | 6153 |
| 5342.8 | 6156 | 6159 | 6163 | 6166 | 6169 | 6172 | 6176 | 6179 | 6182 | 6186 |
| 5342.9 | 6189 | 6192 | 6195 | 6199 | 6202 | 6205 | 6208 | 6212 | 6215 | 6218 |
| 5343.0 | 6222 | 6225 | 6228 | 6231 | 6235 | 6238 | 6241 | 6244 | 6248 | 6251 |
| 5343.1 | 6254 | 6258 | 6261 | 6264 | 6267 | 6271 | 6274 | 6277 | 6280 | 6284 |
| 5343.2 | 6287 | 6290 | 6293 | 6297 | 6300 | 6303 | 6307 | 6310 | 6313 | 6316 |
| 5343.3 | 6320 | 6323 | 6326 | 6329 | 6333 | 6336 | 6339 | 6343 | 6346 | 6349 |
| 5343.4 | 6352 | 6356 | 6359 | 6362 | 6365 | 6369 | 6372 | 6375 | 6379 | 6382 |
| 5343.5 | 6385 | 6388 | 6392 | 6395 | 6398 | 6401 | 6405 | 6408 | 6411 | 6414 |
| 5343.6 | 6418 | 6421 | 6424 | 6428 | 6431 | 6434 | 6437 | 6441 | 6444 | 6447 |
| 5343.7 | 6450 | 6454 | 6457 | 6460 | 6464 | 6467 | 6470 | 6473 | 6477 | 6480 |
| 5343.8 | 6483 | 6486 | 6490 | 6493 | 6496 | 6499 | 6503 | 6506 | 6509 | 6513 |
| 5343.9 | 6516 | 6519 | 6522 | 6526 | 6529 | 6532 | 6535 | 6539 | 6542 | 6545 |
| 5344.0 | 6549 | 6552 | 6555 | 6558 | 6562 | 6565 | 6568 | 6571 | 6575 | 6578 |
| 5344.1 | 6581 | 6585 | 6588 | 6591 | 6594 | 6598 | 6601 | 6604 | 6607 | 6611 |
| 5344.2 | 6614 | 6617 | 6620 | 6624 | 6627 | 6630 | 6634 | 6637 | 6640 | 6643 |
| 5344.3 | 6647 | 6650 | 6653 | 6656 | 6660 | 6663 | 6666 | 6670 | 6673 | 6676 |
| 5344.4 | 6679 | 6683 | 6686 | 6689 | 6692 | 6696 | 6699 | 6702 | 6706 | 6709 |
| 5344.5 | 6712 | 6715 | 6719 | 6722 | 6725 | 6728 | 6732 | 6735 | 6738 | 6741 |
| 5344.6 | 6745 | 6748 | 6751 | 6755 | 6758 | 6761 | 6764 | 6768 | 6771 | 6774 |
| 5344.7 | 6777 | 6781 | 6784 | 6787 | 6791 | 6794 | 6797 | 6800 | 6804 | 6807 |
| 5344.8 | 6810 | 6813 | 6817 | 6820 | 6823 | 6826 | 6830 | 6833 | 6836 | 6840 |
| 5344.9 | 6843 | 6846 | 6849 | 6853 | 6856 | 6859 | 6862 | 6866 | 6869 | 6872 |

RUBY DAM STORAGE - ELEVATION TABLE

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5345.0 | 6876 | 6879 | 6883 | 6887 | 6890 | 6894 | 6898 | 6901 | 6905 | 6909 |
| 5345.1 | 6912 | 6916 | 6920 | 6923 | 6927 | 6931 | 6934 | 6938 | 6942 | 6945 |
| 5345.2 | 6949 | 6953 | 6956 | 6960 | 6964 | 6967 | 6971 | 6975 | 6978 | 6982 |
| 5345.3 | 6986 | 6989 | 6993 | 6997 | 7000 | 7004 | 7008 | 7011 | 7015 | 7019 |
| 5345.4 | 7022 | 7026 | 7030 | 7033 | 7037 | 7041 | 7044 | 7048 | 7052 | 7055 |
| 5345.5 | 7059 | 7063 | 7066 | 7070 | 7074 | 7077 | 7081 | 7085 | 7088 | 7092 |
| 5345.6 | 7096 | 7099 | 7103 | 7107 | 7110 | 7114 | 7118 | 7121 | 7125 | 7129 |
| 5345.7 | 7132 | 7136 | 7140 | 7143 | 7147 | 7150 | 7154 | 7158 | 7161 | 7165 |
| 5345.8 | 7169 | 7172 | 7176 | 7180 | 7183 | 7187 | 7191 | 7194 | 7198 | 7202 |
| 5345.9 | 7205 | 7209 | 7213 | 7216 | 7220 | 7224 | 7227 | 7231 | 7235 | 7238 |
| | | | | | | | | | | |
| 5346.0 | 7242 | 7246 | 7249 | 7253 | 7257 | 7260 | 7264 | 7268 | 7271 | 7275 |
| 5346.1 | 7279 | 7282 | 7286 | 7290 | 7293 | 7297 | 7301 | 7304 | 7308 | 7312 |
| 5346.2 | 7315 | 7319 | 7323 | 7326 | 7330 | 7334 | 7337 | 7341 | 7345 | 7348 |
| 5346.3 | 7352 | 7356 | 7359 | 7363 | 7367 | 7370 | 7374 | 7378 | 7381 | 7385 |
| 5346.4 | 7389 | 7392 | 7396 | 7400 | 7403 | 7407 | 7411 | 7414 | 7418 | 7422 |
| 5346.5 | 7425 | 7429 | 7433 | 7436 | 7440 | 7444 | 7447 | 7451 | 7455 | 7458 |
| 5346.6 | 7462 | 7466 | 7469 | 7473 | 7477 | 7480 | 7484 | 7488 | 7491 | 7495 |
| 5346.7 | 7499 | 7502 | 7506 | 7510 | 7513 | 7517 | 7521 | 7524 | 7528 | 7532 |
| 5346.8 | 7535 | 7539 | 7543 | 7546 | 7550 | 7554 | 7557 | 7561 | 7565 | 7568 |
| 5346.9 | 7572 | 7576 | 7579 | 7583 | 7587 | 7590 | 7594 | 7598 | 7601 | 7605 |
| | | | | | | | | | | |
| 5347.0 | 7609 | 7612 | 7616 | 7620 | 7623 | 7627 | 7631 | 7634 | 7638 | 7642 |
| 5347.1 | 7645 | 7649 | 7653 | 7656 | 7660 | 7664 | 7667 | 7671 | 7675 | 7678 |
| 5347.2 | 7682 | 7686 | 7689 | 7693 | 7697 | 7700 | 7704 | 7708 | 7711 | 7715 |
| 5347.3 | 7719 | 7722 | 7726 | 7730 | 7733 | 7737 | 7741 | 7744 | 7748 | 7752 |
| 5347.4 | 7755 | 7759 | 7763 | 7766 | 7770 | 7774 | 7777 | 7781 | 7785 | 7788 |
| 5347.5 | 7792 | 7796 | 7799 | 7803 | 7807 | 7810 | 7814 | 7818 | 7821 | 7825 |
| 5347.6 | 7829 | 7832 | 7836 | 7840 | 7843 | 7847 | 7851 | 7854 | 7858 | 7862 |
| 5347.7 | 7865 | 7869 | 7873 | 7876 | 7880 | 7884 | 7887 | 7891 | 7895 | 7898 |
| 5347.8 | 7902 | 7906 | 7909 | 7913 | 7917 | 7920 | 7924 | 7928 | 7931 | 7935 |
| 5347.9 | 7939 | 7942 | 7946 | 7950 | 7953 | 7957 | 7961 | 7964 | 7968 | 7972 |
| | | | | | | | | | | |
| 5348.0 | 7975 | 7979 | 7983 | 7986 | 7990 | 7994 | 7997 | 8001 | 8005 | 8008 |
| 5348.1 | 8012 | 8016 | 8019 | 8023 | 8027 | 8030 | 8034 | 8038 | 8041 | 8045 |
| 5348.2 | 8049 | 8052 | 8056 | 8060 | 8063 | 8067 | 8071 | 8074 | 8078 | 8082 |
| 5348.3 | 8085 | 8089 | 8093 | 8096 | 8100 | 8104 | 8107 | 8111 | 8115 | 8118 |
| 5348.4 | 8122 | 8126 | 8129 | 8133 | 8137 | 8140 | 8144 | 8148 | 8151 | 8155 |
| 5348.5 | 8159 | 8162 | 8166 | 8170 | 8173 | 8177 | 8181 | 8184 | 8188 | 8192 |
| 5348.6 | 8195 | 8199 | 8203 | 8206 | 8210 | 8214 | 8217 | 8221 | 8225 | 8228 |
| 5348.7 | 8232 | 8236 | 8239 | 8243 | 8247 | 8250 | 8254 | 8258 | 8261 | 8265 |
| 5348.8 | 8269 | 8272 | 8276 | 8280 | 8283 | 8287 | 8291 | 8294 | 8298 | 8302 |
| 5348.9 | 8305 | 8309 | 8313 | 8316 | 8320 | 8324 | 8327 | 8331 | 8335 | 8338 |
| | | | | | | | | | | |
| 5349.0 | 8342 | 8346 | 8349 | 8353 | 8357 | 8360 | 8364 | 8368 | 8371 | 8375 |
| 5349.1 | 8379 | 8382 | 8386 | 8390 | 8393 | 8397 | 8401 | 8404 | 8408 | 8412 |
| 5349.2 | 8415 | 8419 | 8423 | 8426 | 8430 | 8434 | 8437 | 8441 | 8445 | 8448 |
| 5349.3 | 8452 | 8456 | 8459 | 8463 | 8467 | 8470 | 8474 | 8478 | 8481 | 8485 |
| 5349.4 | 8489 | 8492 | 8496 | 8500 | 8503 | 8507 | 8511 | 8514 | 8518 | 8522 |
| 5349.5 | 8525 | 8529 | 8533 | 8536 | 8540 | 8544 | 8547 | 8551 | 8555 | 8558 |
| 5349.6 | 8562 | 8566 | 8569 | 8573 | 8577 | 8580 | 8584 | 8588 | 8591 | 8595 |
| 5349.7 | 8599 | 8602 | 8606 | 8610 | 8613 | 8617 | 8621 | 8624 | 8628 | 8632 |
| 5349.8 | 8635 | 8639 | 8643 | 8646 | 8650 | 8654 | 8657 | 8661 | 8665 | 8668 |
| 5349.9 | 8672 | 8676 | 8679 | 8683 | 8687 | 8690 | 8694 | 8698 | 8701 | 8705 |

## RUBY DAM STORAGE - ELEVATION TABLE

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5350.0 | 8709 | 8713 | 8717 | 8721 | 8725 | 8729 | 8733 | 8737 | 8741 | 8745 |
| 5350.1 | 8750 | 8754 | 8758 | 8762 | 8766 | 8770 | 8774 | 8778 | 8782 | 8786 |
| 5350.2 | 8791 | 8795 | 8799 | 8803 | 8807 | 8811 | 8815 | 8819 | 8823 | 8827 |
| 5350.3 | 8832 | 8836 | 8840 | 8844 | 8848 | 8852 | 8856 | 8860 | 8864 | 8868 |
| 5350.4 | 8873 | 8877 | 8881 | 8885 | 8889 | 8893 | 8897 | 8901 | 8905 | 8909 |
| 5350.5 | 8914 | 8918 | 8922 | 8926 | 8930 | 8934 | 8938 | 8942 | 8946 | 8950 |
| 5350.6 | 8955 | 8959 | 8963 | 8967 | 8971 | 8975 | 8979 | 8983 | 8987 | 8991 |
| 5350.7 | 8996 | 9000 | 9004 | 9008 | 9012 | 9016 | 9020 | 9024 | 9028 | 9032 |
| 5350.8 | 9037 | 9041 | 9045 | 9049 | 9053 | 9057 | 9061 | 9065 | 9069 | 9073 |
| 5350.9 | 9078 | 9082 | 9086 | 9090 | 9094 | 9098 | 9102 | 9106 | 9110 | 9114 |
| 5351.0 | 9119 | 9123 | 9127 | 9131 | 9135 | 9139 | 9143 | 9147 | 9151 | 9155 |
| 5351.1 | 9160 | 9164 | 9168 | 9172 | 9176 | 9180 | 9184 | 9188 | 9192 | 9196 |
| 5351.2 | 9201 | 9205 | 9209 | 9213 | 9217 | 9221 | 9225 | 9229 | 9233 | 9237 |
| 5351.3 | 9242 | 9246 | 9250 | 9254 | 9258 | 9262 | 9266 | 9270 | 9274 | 9278 |
| 5351.4 | 9283 | 9287 | 9291 | 9295 | 9299 | 9303 | 9307 | 9311 | 9315 | 9319 |
| 5351.5 | 9324 | 9328 | 9332 | 9336 | 9340 | 9344 | 9348 | 9352 | 9356 | 9360 |
| 5351.6 | 9365 | 9369 | 9373 | 9377 | 9381 | 9385 | 9389 | 9393 | 9397 | 9401 |
| 5351.7 | 9406 | 9410 | 9414 | 9418 | 9422 | 9426 | 9430 | 9434 | 9438 | 9442 |
| 5351.8 | 9447 | 9451 | 9455 | 9459 | 9463 | 9467 | 9471 | 9475 | 9479 | 9483 |
| 5351.9 | 9488 | 9492 | 9496 | 9500 | 9504 | 9508 | 9512 | 9516 | 9520 | 9524 |
| 5352.0 | 9529 | 9533 | 9537 | 9541 | 9545 | 9549 | 9553 | 9557 | 9561 | 9565 |
| 5352.1 | 9570 | 9574 | 9578 | 9582 | 9586 | 9590 | 9594 | 9598 | 9602 | 9606 |
| 5352.2 | 9611 | 9615 | 9619 | 9623 | 9627 | 9631 | 9635 | 9639 | 9643 | 9647 |
| 5352.3 | 9652 | 9656 | 9660 | 9664 | 9668 | 9672 | 9676 | 9680 | 9684 | 9688 |
| 5352.4 | 9693 | 9697 | 9701 | 9705 | 9709 | 9713 | 9717 | 9721 | 9725 | 9729 |
| 5352.5 | 9734 | 9738 | 9742 | 9746 | 9750 | 9754 | 9758 | 9762 | 9766 | 9770 |
| 5352.6 | 9775 | 9779 | 9783 | 9787 | 9791 | 9795 | 9799 | 9803 | 9807 | 9811 |
| 5352.7 | 9816 | 9820 | 9824 | 9828 | 9832 | 9836 | 9840 | 9844 | 9848 | 9852 |
| 5352.8 | 9857 | 9861 | 9865 | 9869 | 9873 | 9877 | 9881 | 9885 | 9889 | 9893 |
| 5352.9 | 9898 | 9902 | 9906 | 9910 | 9914 | 9918 | 9922 | 9926 | 9930 | 9934 |
| 5353.0 | 9939 | 9943 | 9947 | 9951 | 9955 | 9959 | 9963 | 9967 | 9971 | 9975 |
| 5353.1 | 9980 | 9984 | 9988 | 9992 | 9996 | 10000 | 10004 | 10008 | 10012 | 10016 |
| 5353.2 | 10021 | 10025 | 10029 | 10033 | 10037 | 10041 | 10045 | 10049 | 10053 | 10057 |
| 5353.3 | 10062 | 10066 | 10070 | 10074 | 10078 | 10082 | 10086 | 10090 | 10094 | 10098 |
| 5353.4 | 10103 | 10107 | 10111 | 10115 | 10119 | 10123 | 10127 | 10131 | 10135 | 10139 |
| 5353.5 | 10144 | 10148 | 10152 | 10156 | 10160 | 10164 | 10168 | 10172 | 10176 | 10180 |
| 5353.6 | 10185 | 10189 | 10193 | 10197 | 10201 | 10205 | 10209 | 10213 | 10217 | 10221 |
| 5353.7 | 10226 | 10230 | 10234 | 10238 | 10242 | 10246 | 10250 | 10254 | 10258 | 10262 |
| 5353.8 | 10267 | 10271 | 10275 | 10279 | 10283 | 10287 | 10291 | 10295 | 10299 | 10303 |
| 5353.9 | 10308 | 10312 | 10316 | 10320 | 10324 | 10328 | 10332 | 10336 | 10340 | 10344 |
| 5354.0 | 10349 | 10353 | 10357 | 10361 | 10365 | 10369 | 10373 | 10377 | 10381 | 10385 |
| 5354.1 | 10390 | 10394 | 10398 | 10402 | 10406 | 10410 | 10414 | 10418 | 10422 | 10426 |
| 5354.2 | 10431 | 10435 | 10439 | 10443 | 10447 | 10451 | 10455 | 10459 | 10463 | 10467 |
| 5354.3 | 10472 | 10476 | 10480 | 10484 | 10488 | 10492 | 10496 | 10500 | 10504 | 10508 |
| 5354.4 | 10513 | 10517 | 10521 | 10525 | 10529 | 10533 | 10537 | 10541 | 10545 | 10549 |
| 5354.5 | 10554 | 10558 | 10562 | 10566 | 10570 | 10574 | 10578 | 10582 | 10586 | 10590 |
| 5354.6 | 10595 | 10599 | 10603 | 10607 | 10611 | 10615 | 10619 | 10623 | 10627 | 10631 |
| 5354.7 | 10636 | 10640 | 10644 | 10648 | 10652 | 10656 | 10660 | 10664 | 10668 | 10672 |
| 5354.8 | 10677 | 10681 | 10685 | 10689 | 10693 | 10697 | 10701 | 10705 | 10709 | 10713 |
| 5354.9 | 10718 | 10722 | 10726 | 10730 | 10734 | 10738 | 10742 | 10746 | 10750 | 10754 |

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5355.0 | 10759 | 10763 | 10768 | 10772 | 10777 | 10782 | 10786 | 10791 | 10795 | 10800 |
| 5355.1 | 10805 | 10809 | 10814 | 10819 | 10823 | 10828 | 10832 | 10837 | 10842 | 10846 |
| 5355.2 | 10851 | 10855 | 10860 | 10865 | 10869 | 10874 | 10879 | 10883 | 10888 | 10892 |
| 5355.3 | 10897 | 10902 | 10906 | 10911 | 10915 | 10920 | 10925 | 10929 | 10934 | 10939 |
| 5355.4 | 10943 | 10948 | 10952 | 10957 | 10962 | 10966 | 10971 | 10976 | 10980 | 10985 |
| 5355.5 | 10989 | 10994 | 10999 | 11003 | 11008 | 11012 | 11017 | 11022 | 11026 | 11031 |
| 5355.6 | 11036 | 11040 | 11045 | 11049 | 11054 | 11059 | 11063 | 11068 | 11072 | 11077 |
| 5355.7 | 11082 | 11086 | 11091 | 11096 | 11100 | 11105 | 11109 | 11114 | 11119 | 11123 |
| 5355.8 | 11128 | 11132 | 11137 | 11142 | 11146 | 11151 | 11156 | 11160 | 11165 | 11169 |
| 5355.9 | 11174 | 11179 | 11183 | 11188 | 11192 | 11197 | 11202 | 11206 | 11211 | 11216 |
| 5356.0 | 11220 | 11225 | 11229 | 11234 | 11239 | 11243 | 11248 | 11252 | 11257 | 11262 |
| 5356.1 | 11266 | 11271 | 11276 | 11280 | 11285 | 11289 | 11294 | 11299 | 11303 | 11308 |
| 5356.2 | 11312 | 11317 | 11322 | 11326 | 11331 | 11336 | 11340 | 11345 | 11349 | 11354 |
| 5356.3 | 11359 | 11363 | 11368 | 11372 | 11377 | 11382 | 11386 | 11391 | 11396 | 11400 |
| 5356.4 | 11405 | 11409 | 11414 | 11419 | 11423 | 11428 | 11432 | 11437 | 11442 | 11446 |
| 5356.5 | 11451 | 11456 | 11460 | 11465 | 11469 | 11474 | 11479 | 11483 | 11488 | 11492 |
| 5356.6 | 11497 | 11502 | 11506 | 11511 | 11516 | 11520 | 11525 | 11529 | 11534 | 11539 |
| 5356.7 | 11543 | 11548 | 11553 | 11557 | 11562 | 11566 | 11571 | 11576 | 11580 | 11585 |
| 5356.8 | 11589 | 11594 | 11599 | 11603 | 11608 | 11613 | 11617 | 11622 | 11626 | 11631 |
| 5356.9 | 11636 | 11640 | 11645 | 11649 | 11654 | 11659 | 11663 | 11668 | 11673 | 11677 |
| 5357.0 | 11682 | 11686 | 11691 | 11696 | 11700 | 11705 | 11709 | 11714 | 11719 | 11723 |
| 5357.1 | 11728 | 11733 | 11737 | 11742 | 11746 | 11751 | 11756 | 11760 | 11765 | 11769 |
| 5357.2 | 11774 | 11779 | 11783 | 11788 | 11793 | 11797 | 11802 | 11806 | 11811 | 11816 |
| 5357.3 | 11820 | 11825 | 11829 | 11834 | 11839 | 11843 | 11848 | 11853 | 11857 | 11862 |
| 5357.4 | 11866 | 11871 | 11876 | 11880 | 11885 | 11889 | 11894 | 11899 | 11903 | 11908 |
| 5357.5 | 11913 | 11917 | 11922 | 11926 | 11931 | 11936 | 11940 | 11945 | 11949 | 11954 |
| 5357.6 | 11959 | 11963 | 11968 | 11973 | 11977 | 11982 | 11986 | 11991 | 11996 | 12000 |
| 5357.7 | 12005 | 12009 | 12014 | 12019 | 12023 | 12028 | 12033 | 12037 | 12042 | 12046 |
| 5357.8 | 12051 | 12056 | 12060 | 12065 | 12069 | 12074 | 12079 | 12083 | 12088 | 12093 |
| 5357.9 | 12097 | 12102 | 12106 | 12111 | 12116 | 12120 | 12125 | 12130 | 12134 | 12139 |
| 5358.0 | 12143 | 12148 | 12153 | 12157 | 12162 | 12166 | 12171 | 12176 | 12180 | 12185 |
| 5358.1 | 12190 | 12194 | 12199 | 12203 | 12208 | 12213 | 12217 | 12222 | 12226 | 12231 |
| 5358.2 | 12236 | 12240 | 12245 | 12250 | 12254 | 12259 | 12263 | 12268 | 12273 | 12277 |
| 5358.3 | 12282 | 12286 | 12291 | 12296 | 12300 | 12305 | 12310 | 12314 | 12319 | 12323 |
| 5358.4 | 12328 | 12333 | 12337 | 12342 | 12346 | 12351 | 12356 | 12360 | 12365 | 12370 |
| 5358.5 | 12374 | 12379 | 12383 | 12388 | 12393 | 12397 | 12402 | 12406 | 12411 | 12416 |
| 5358.6 | 12420 | 12425 | 12430 | 12434 | 12439 | 12443 | 12448 | 12453 | 12457 | 12462 |
| 5358.7 | 12466 | 12471 | 12476 | 12480 | 12485 | 12490 | 12494 | 12499 | 12503 | 12508 |
| 5358.8 | 12513 | 12517 | 12522 | 12526 | 12531 | 12536 | 12540 | 12545 | 12550 | 12554 |
| 5358.9 | 12559 | 12563 | 12568 | 12573 | 12577 | 12582 | 12586 | 12591 | 12596 | 12600 |
| 5359.0 | 12605 | 12610 | 12614 | 12619 | 12623 | 12628 | 12633 | 12637 | 12642 | 12646 |
| 5359.1 | 12651 | 12656 | 12660 | 12665 | 12670 | 12674 | 12679 | 12683 | 12688 | 12693 |
| 5359.2 | 12697 | 12702 | 12707 | 12711 | 12716 | 12720 | 12725 | 12730 | 12734 | 12739 |
| 5359.3 | 12743 | 12748 | 12753 | 12757 | 12762 | 12767 | 12771 | 12776 | 12780 | 12785 |
| 5359.4 | 12790 | 12794 | 12799 | 12803 | 12808 | 12813 | 12817 | 12822 | 12827 | 12831 |
| 5359.5 | 12836 | 12840 | 12845 | 12850 | 12854 | 12859 | 12863 | 12868 | 12873 | 12877 |
| 5359.6 | 12882 | 12887 | 12891 | 12896 | 12900 | 12905 | 12910 | 12914 | 12919 | 12923 |
| 5359.7 | 12928 | 12933 | 12937 | 12942 | 12947 | 12951 | 12956 | 12960 | 12965 | 12970 |
| 5359.8 | 12974 | 12979 | 12983 | 12988 | 12993 | 12997 | 13002 | 13007 | 13011 | 13016 |
| 5359.9 | 13020 | 13025 | 13030 | 13034 | 13039 | 13043 | 13048 | 13053 | 13057 | 13062 |

## RUBY DAM STORAGE - ELEVATION TABLE

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5360.0 | 13067 | 13072 | 13077 | 13082 | 13088 | 13093 | 13098 | 13103 | 13108 | 13114 |
| 5360.1 | 13119 | 13124 | 13129 | 13135 | 13140 | 13145 | 13150 | 13156 | 13161 | 13166 |
| 5360.2 | 13171 | 13177 | 13182 | 13187 | 13192 | 13198 | 13203 | 13208 | 13213 | 13219 |
| 5360.3 | 13224 | 13229 | 13234 | 13239 | 13245 | 13250 | 13255 | 13260 | 13266 | 13271 |
| 5360.4 | 13276 | 13281 | 13287 | 13292 | 13297 | 13302 | 13308 | 13313 | 13318 | 13323 |
| 5360.5 | 13329 | 13334 | 13339 | 13344 | 13350 | 13355 | 13360 | 13365 | 13370 | 13376 |
| 5360.6 | 13381 | 13386 | 13391 | 13397 | 13402 | 13407 | 13412 | 13418 | 13423 | 13428 |
| 5360.7 | 13433 | 13439 | 13444 | 13449 | 13454 | 13460 | 13465 | 13470 | 13475 | 13481 |
| 5360.8 | 13486 | 13491 | 13496 | 13501 | 13507 | 13512 | 13517 | 13522 | 13528 | 13533 |
| 5360.9 | 13538 | 13543 | 13549 | 13554 | 13559 | 13564 | 13570 | 13575 | 13580 | 13585 |
| 5361.0 | 13591 | 13596 | 13601 | 13606 | 13612 | 13617 | 13622 | 13627 | 13632 | 13638 |
| 5361.1 | 13643 | 13648 | 13653 | 13659 | 13664 | 13669 | 13674 | 13680 | 13685 | 13690 |
| 5361.2 | 13695 | 13701 | 13706 | 13711 | 13716 | 13722 | 13727 | 13732 | 13737 | 13743 |
| 5361.3 | 13748 | 13753 | 13758 | 13763 | 13769 | 13774 | 13779 | 13784 | 13790 | 13795 |
| 5361.4 | 13800 | 13805 | 13811 | 13816 | 13821 | 13826 | 13832 | 13837 | 13842 | 13847 |
| 5361.5 | 13853 | 13858 | 13863 | 13868 | 13874 | 13879 | 13884 | 13889 | 13894 | 13900 |
| 5361.6 | 13905 | 13910 | 13915 | 13921 | 13926 | 13931 | 13936 | 13942 | 13947 | 13952 |
| 5361.7 | 13957 | 13963 | 13968 | 13973 | 13978 | 13984 | 13989 | 13994 | 13999 | 14005 |
| 5361.8 | 14010 | 14015 | 14020 | 14025 | 14031 | 14036 | 14041 | 14046 | 14052 | 14057 |
| 5361.9 | 14062 | 14067 | 14073 | 14078 | 14083 | 14088 | 14094 | 14099 | 14104 | 14109 |
| 5362.0 | 14115 | 14120 | 14125 | 14130 | 14136 | 14141 | 14146 | 14151 | 14156 | 14162 |
| 5362.1 | 14167 | 14172 | 14177 | 14183 | 14188 | 14193 | 14198 | 14204 | 14209 | 14214 |
| 5362.2 | 14219 | 14225 | 14230 | 14235 | 14240 | 14246 | 14251 | 14256 | 14261 | 14267 |
| 5362.3 | 14272 | 14277 | 14282 | 14287 | 14293 | 14298 | 14303 | 14308 | 14314 | 14319 |
| 5362.4 | 14324 | 14329 | 14335 | 14340 | 14345 | 14350 | 14356 | 14361 | 14366 | 14371 |
| 5362.5 | 14377 | 14382 | 14387 | 14392 | 14398 | 14403 | 14408 | 14413 | 14418 | 14424 |
| 5362.6 | 14429 | 14434 | 14439 | 14445 | 14450 | 14455 | 14460 | 14466 | 14471 | 14476 |
| 5362.7 | 14481 | 14487 | 14492 | 14497 | 14502 | 14508 | 14513 | 14518 | 14523 | 14529 |
| 5362.8 | 14534 | 14539 | 14544 | 14549 | 14555 | 14560 | 14565 | 14570 | 14576 | 14581 |
| 5362.9 | 14586 | 14591 | 14597 | 14602 | 14607 | 14612 | 14618 | 14623 | 14628 | 14633 |
| 5363.0 | 14639 | 14644 | 14649 | 14654 | 14660 | 14665 | 14670 | 14675 | 14680 | 14686 |
| 5363.1 | 14691 | 14696 | 14701 | 14707 | 14712 | 14717 | 14722 | 14728 | 14733 | 14738 |
| 5363.2 | 14743 | 14749 | 14754 | 14759 | 14764 | 14770 | 14775 | 14780 | 14785 | 14791 |
| 5363.3 | 14796 | 14801 | 14806 | 14811 | 14817 | 14822 | 14827 | 14832 | 14838 | 14843 |
| 5363.4 | 14848 | 14853 | 14859 | 14864 | 14869 | 14874 | 14880 | 14885 | 14890 | 14895 |
| 5363.5 | 14901 | 14906 | 14911 | 14916 | 14922 | 14927 | 14932 | 14937 | 14942 | 14948 |
| 5363.6 | 14953 | 14958 | 14963 | 14969 | 14974 | 14979 | 14984 | 14990 | 14995 | 15000 |
| 5363.7 | 15005 | 15011 | 15016 | 15021 | 15026 | 15032 | 15037 | 15042 | 15047 | 15053 |
| 5363.8 | 15058 | 15063 | 15068 | 15073 | 15079 | 15084 | 15089 | 15094 | 15100 | 15105 |
| 5363.9 | 15110 | 15115 | 15121 | 15126 | 15131 | 15136 | 15142 | 15147 | 15152 | 15157 |
| 5364.0 | 15163 | 15168 | 15173 | 15178 | 15184 | 15189 | 15194 | 15199 | 15204 | 15210 |
| 5364.1 | 15215 | 15220 | 15225 | 15231 | 15236 | 15241 | 15246 | 15252 | 15257 | 15262 |
| 5364.2 | 15267 | 15273 | 15278 | 15283 | 15288 | 15294 | 15299 | 15304 | 15309 | 15315 |
| 5364.3 | 15320 | 15325 | 15330 | 15335 | 15341 | 15346 | 15351 | 15356 | 15362 | 15367 |
| 5364.4 | 15372 | 15377 | 15383 | 15388 | 15393 | 15398 | 15404 | 15409 | 15414 | 15419 |
| 5364.5 | 15425 | 15430 | 15435 | 15440 | 15446 | 15451 | 15456 | 15461 | 15466 | 15472 |
| 5364.6 | 15477 | 15482 | 15487 | 15493 | 15498 | 15503 | 15508 | 15514 | 15519 | 15524 |
| 5364.7 | 15529 | 15535 | 15540 | 15545 | 15550 | 15556 | 15561 | 15566 | 15571 | 15577 |
| 5364.8 | 15582 | 15587 | 15592 | 15597 | 15603 | 15608 | 15613 | 15618 | 15624 | 15629 |
| 5364.9 | 15634 | 15639 | 15645 | 15650 | 15655 | 15660 | 15666 | 15671 | 15676 | 15681 |

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5365.0 | 15687 | 15692 | 15698 | 15704 | 15710 | 15716 | 15722 | 15728 | 15734 | 15739 |
| 5365.1 | 15745 | 15751 | 15757 | 15763 | 15769 | 15775 | 15781 | 15786 | 15792 | 15798 |
| 5365.2 | 15804 | 15810 | 15816 | 15822 | 15828 | 15833 | 15839 | 15845 | 15851 | 15857 |
| 5365.3 | 15863 | 15869 | 15875 | 15880 | 15886 | 15892 | 15898 | 15904 | 15910 | 15916 |
| 5365.4 | 15922 | 15927 | 15933 | 15939 | 15945 | 15951 | 15957 | 15963 | 15969 | 15974 |
| 5365.5 | 15980 | 15986 | 15992 | 15998 | 16004 | 16010 | 16016 | 16021 | 16027 | 16033 |
| 5365.6 | 16039 | 16045 | 16051 | 16057 | 16063 | 16068 | 16074 | 16080 | 16086 | 16092 |
| 5365.7 | 16098 | 16104 | 16110 | 16115 | 16121 | 16127 | 16133 | 16139 | 16145 | 16151 |
| 5365.8 | 16157 | 16163 | 16168 | 16174 | 16180 | 16186 | 16192 | 16198 | 16204 | 16210 |
| 5365.9 | 16215 | 16221 | 16227 | 16233 | 16239 | 16245 | 16251 | 16257 | 16262 | 16268 |
| 5366.0 | 16274 | 16280 | 16286 | 16292 | 16298 | 16304 | 16309 | 16315 | 16321 | 16327 |
| 5366.1 | 16333 | 16339 | 16345 | 16351 | 16356 | 16362 | 16368 | 16374 | 16380 | 16386 |
| 5366.2 | 16392 | 16398 | 16403 | 16409 | 16415 | 16421 | 16427 | 16433 | 16439 | 16445 |
| 5366.3 | 16450 | 16456 | 16462 | 16468 | 16474 | 16480 | 16486 | 16492 | 16497 | 16503 |
| 5366.4 | 16509 | 16515 | 16521 | 16527 | 16533 | 16539 | 16544 | 16550 | 16556 | 16562 |
| 5366.5 | 16568 | 16574 | 16580 | 16586 | 16591 | 16597 | 16603 | 16609 | 16615 | 16621 |
| 5366.6 | 16627 | 16633 | 16638 | 16644 | 16650 | 16656 | 16662 | 16668 | 16674 | 16680 |
| 5366.7 | 16685 | 16691 | 16697 | 16703 | 16709 | 16715 | 16721 | 16727 | 16732 | 16738 |
| 5366.8 | 16744 | 16750 | 16756 | 16762 | 16768 | 16774 | 16779 | 16785 | 16791 | 16797 |
| 5366.9 | 16803 | 16809 | 16815 | 16821 | 16826 | 16832 | 16838 | 16844 | 16850 | 16856 |
| 5367.0 | 16862 | 16868 | 16874 | 16879 | 16885 | 16891 | 16897 | 16903 | 16909 | 16915 |
| 5367.1 | 16921 | 16926 | 16932 | 16938 | 16944 | 16950 | 16956 | 16962 | 16968 | 16973 |
| 5367.2 | 16979 | 16985 | 16991 | 16997 | 17003 | 17009 | 17015 | 17020 | 17026 | 17032 |
| 5367.3 | 17038 | 17044 | 17050 | 17056 | 17062 | 17067 | 17073 | 17079 | 17085 | 17091 |
| 5367.4 | 17097 | 17103 | 17109 | 17114 | 17120 | 17126 | 17132 | 17138 | 17144 | 17150 |
| 5367.5 | 17156 | 17161 | 17167 | 17173 | 17179 | 17185 | 17191 | 17197 | 17203 | 17208 |
| 5367.6 | 17214 | 17220 | 17226 | 17232 | 17238 | 17244 | 17250 | 17255 | 17261 | 17267 |
| 5367.7 | 17273 | 17279 | 17285 | 17291 | 17297 | 17302 | 17308 | 17314 | 17320 | 17326 |
| 5367.8 | 17332 | 17338 | 17344 | 17349 | 17355 | 17361 | 17367 | 17373 | 17379 | 17385 |
| 5367.9 | 17391 | 17396 | 17402 | 17408 | 17414 | 17420 | 17426 | 17432 | 17438 | 17443 |
| 5368.0 | 17449 | 17455 | 17461 | 17467 | 17473 | 17479 | 17485 | 17490 | 17496 | 17502 |
| 5368.1 | 17508 | 17514 | 17520 | 17526 | 17532 | 17537 | 17543 | 17549 | 17555 | 17561 |
| 5368.2 | 17567 | 17573 | 17579 | 17584 | 17590 | 17596 | 17602 | 17608 | 17614 | 17620 |
| 5368.3 | 17626 | 17632 | 17637 | 17643 | 17649 | 17655 | 17661 | 17667 | 17673 | 17679 |
| 5368.4 | 17684 | 17690 | 17696 | 17702 | 17708 | 17714 | 17720 | 17726 | 17731 | 17737 |
| 5368.5 | 17743 | 17749 | 17755 | 17761 | 17767 | 17773 | 17778 | 17784 | 17790 | 17796 |
| 5368.6 | 17802 | 17808 | 17814 | 17820 | 17825 | 17831 | 17837 | 17843 | 17849 | 17855 |
| 5368.7 | 17861 | 17867 | 17872 | 17878 | 17884 | 17890 | 17896 | 17902 | 17908 | 17914 |
| 5368.8 | 17919 | 17925 | 17931 | 17937 | 17943 | 17949 | 17955 | 17961 | 17966 | 17972 |
| 5368.9 | 17978 | 17984 | 17990 | 17996 | 18002 | 18008 | 18013 | 18019 | 18025 | 18031 |
| 5369.0 | 18037 | 18043 | 18049 | 18055 | 18060 | 18066 | 18072 | 18078 | 18084 | 18090 |
| 5369.1 | 18096 | 18102 | 18107 | 18113 | 18119 | 18125 | 18131 | 18137 | 18143 | 18149 |
| 5369.2 | 18154 | 18160 | 18166 | 18172 | 18178 | 18184 | 18190 | 18196 | 18201 | 18207 |
| 5369.3 | 18213 | 18219 | 18225 | 18231 | 18237 | 18243 | 18248 | 18254 | 18260 | 18266 |
| 5369.4 | 18272 | 18278 | 18284 | 18290 | 18295 | 18301 | 18307 | 18313 | 18319 | 18325 |
| 5369.5 | 18331 | 18337 | 18343 | 18348 | 18354 | 18360 | 18366 | 18372 | 18378 | 18384 |
| 5369.6 | 18390 | 18395 | 18401 | 18407 | 18413 | 18419 | 18425 | 18431 | 18437 | 18442 |
| 5369.7 | 18448 | 18454 | 18460 | 18466 | 18472 | 18478 | 18484 | 18489 | 18495 | 18501 |
| 5369.8 | 18507 | 18513 | 18519 | 18525 | 18531 | 18536 | 18542 | 18548 | 18554 | 18560 |
| 5369.9 | 18566 | 18572 | 18578 | 18583 | 18589 | 18595 | 18601 | 18607 | 18613 | 18619 |

## RUBY DAM STORAGE - ELEVATION TABLE

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5370.0 | 18625 | 18631 | 18638 | 18645 | 18651 | 18658 | 18665 | 18671 | 18678 | 18685 |
| 5370.1 | 18691 | 18698 | 18705 | 18712 | 18718 | 18725 | 18732 | 18738 | 18745 | 18752 |
| 5370.2 | 18758 | 18765 | 18772 | 18778 | 18785 | 18792 | 18798 | 18805 | 18812 | 18819 |
| 5370.3 | 18825 | 18832 | 18839 | 18845 | 18852 | 18859 | 18865 | 18872 | 18879 | 18885 |
| 5370.4 | 18892 | 18899 | 18906 | 18912 | 18919 | 18926 | 18932 | 18939 | 18946 | 18952 |
| 5370.5 | 18959 | 18966 | 18972 | 18979 | 18986 | 18992 | 18999 | 19006 | 19013 | 19019 |
| 5370.6 | 19026 | 19033 | 19039 | 19046 | 19053 | 19059 | 19066 | 19073 | 19079 | 19086 |
| 5370.7 | 19093 | 19100 | 19106 | 19113 | 19120 | 19126 | 19133 | 19140 | 19146 | 19153 |
| 5370.8 | 19160 | 19166 | 19173 | 19180 | 19187 | 19193 | 19200 | 19207 | 19213 | 19220 |
| 5370.9 | 19227 | 19233 | 19240 | 19247 | 19253 | 19260 | 19267 | 19273 | 19280 | 19287 |
| 5371.0 | 19294 | 19300 | 19307 | 19314 | 19320 | 19327 | 19334 | 19340 | 19347 | 19354 |
| 5371.1 | 19360 | 19367 | 19374 | 19381 | 19387 | 19394 | 19401 | 19407 | 19414 | 19421 |
| 5371.2 | 19427 | 19434 | 19441 | 19447 | 19454 | 19461 | 19467 | 19474 | 19481 | 19488 |
| 5371.3 | 19494 | 19501 | 19508 | 19514 | 19521 | 19528 | 19534 | 19541 | 19548 | 19554 |
| 5371.4 | 19561 | 19568 | 19575 | 19581 | 19588 | 19595 | 19601 | 19608 | 19615 | 19621 |
| 5371.5 | 19628 | 19635 | 19641 | 19648 | 19655 | 19661 | 19668 | 19675 | 19682 | 19688 |
| 5371.6 | 19695 | 19702 | 19708 | 19715 | 19722 | 19728 | 19735 | 19742 | 19748 | 19755 |
| 5371.7 | 19762 | 19769 | 19775 | 19782 | 19789 | 19795 | 19802 | 19809 | 19815 | 19822 |
| 5371.8 | 19829 | 19835 | 19842 | 19849 | 19856 | 19862 | 19869 | 19876 | 19882 | 19889 |
| 5371.9 | 19896 | 19902 | 19909 | 19916 | 19922 | 19929 | 19936 | 19942 | 19949 | 19956 |
| 5372.0 | 19963 | 19969 | 19976 | 19983 | 19989 | 19996 | 20003 | 20009 | 20016 | 20023 |
| 5372.1 | 20029 | 20036 | 20043 | 20050 | 20056 | 20063 | 20070 | 20076 | 20083 | 20090 |
| 5372.2 | 20096 | 20103 | 20110 | 20116 | 20123 | 20130 | 20136 | 20143 | 20150 | 20157 |
| 5372.3 | 20163 | 20170 | 20177 | 20183 | 20190 | 20197 | 20203 | 20210 | 20217 | 20223 |
| 5372.4 | 20230 | 20237 | 20244 | 20250 | 20257 | 20264 | 20270 | 20277 | 20284 | 20290 |
| 5372.5 | 20297 | 20304 | 20310 | 20317 | 20324 | 20330 | 20337 | 20344 | 20351 | 20357 |
| 5372.6 | 20364 | 20371 | 20377 | 20384 | 20391 | 20397 | 20404 | 20411 | 20417 | 20424 |
| 5372.7 | 20431 | 20438 | 20444 | 20451 | 20458 | 20464 | 20471 | 20478 | 20484 | 20491 |
| 5372.8 | 20498 | 20504 | 20511 | 20518 | 20525 | 20531 | 20538 | 20545 | 20551 | 20558 |
| 5372.9 | 20565 | 20571 | 20578 | 20585 | 20591 | 20598 | 20605 | 20611 | 20618 | 20625 |
| 5373.0 | 20632 | 20638 | 20645 | 20652 | 20658 | 20665 | 20672 | 20678 | 20685 | 20692 |
| 5373.1 | 20698 | 20705 | 20712 | 20719 | 20725 | 20732 | 20739 | 20745 | 20752 | 20759 |
| 5373.2 | 20765 | 20772 | 20779 | 20785 | 20792 | 20799 | 20805 | 20812 | 20819 | 20826 |
| 5373.3 | 20832 | 20839 | 20846 | 20852 | 20859 | 20866 | 20872 | 20879 | 20886 | 20892 |
| 5373.4 | 20899 | 20906 | 20913 | 20919 | 20926 | 20933 | 20939 | 20946 | 20953 | 20959 |
| 5373.5 | 20966 | 20973 | 20979 | 20986 | 20993 | 20999 | 21006 | 21013 | 21020 | 21026 |
| 5373.6 | 21033 | 21040 | 21046 | 21053 | 21060 | 21066 | 21073 | 21080 | 21086 | 21093 |
| 5373.7 | 21100 | 21107 | 21113 | 21120 | 21127 | 21133 | 21140 | 21147 | 21153 | 21160 |
| 5373.8 | 21167 | 21173 | 21180 | 21187 | 21194 | 21200 | 21207 | 21214 | 21220 | 21227 |
| 5373.9 | 21234 | 21240 | 21247 | 21254 | 21260 | 21267 | 21274 | 21280 | 21287 | 21294 |
| 5374.0 | 21301 | 21307 | 21314 | 21321 | 21327 | 21334 | 21341 | 21347 | 21354 | 21361 |
| 5374.1 | 21367 | 21374 | 21381 | 21388 | 21394 | 21401 | 21408 | 21414 | 21421 | 21428 |
| 5374.2 | 21434 | 21441 | 21448 | 21454 | 21461 | 21468 | 21474 | 21481 | 21488 | 21495 |
| 5374.3 | 21501 | 21508 | 21515 | 21521 | 21528 | 21535 | 21541 | 21548 | 21555 | 21561 |
| 5374.4 | 21568 | 21575 | 21582 | 21588 | 21595 | 21602 | 21608 | 21615 | 21622 | 21628 |
| 5374.5 | 21635 | 21642 | 21648 | 21655 | 21662 | 21668 | 21675 | 21682 | 21689 | 21695 |
| 5374.6 | 21702 | 21709 | 21715 | 21722 | 21729 | 21735 | 21742 | 21749 | 21755 | 21762 |
| 5374.7 | 21769 | 21776 | 21782 | 21789 | 21796 | 21802 | 21809 | 21816 | 21822 | 21829 |
| 5374.8 | 21836 | 21842 | 21849 | 21856 | 21863 | 21869 | 21876 | 21883 | 21889 | 21896 |
| 5374.9 | 21903 | 21909 | 21916 | 21923 | 21929 | 21936 | 21943 | 21949 | 21956 | 21963 |

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5375.0 | 21970 | 21977 | 21985 | 21993 | 22000 | 22008 | 22016 | 22024 | 22031 | 22039 |
| 5375.1 | 22047 | 22055 | 22062 | 22070 | 22078 | 22086 | 22093 | 22101 | 22109 | 22116 |
| 5375.2 | 22124 | 22132 | 22140 | 22147 | 22155 | 22163 | 22171 | 22178 | 22186 | 22194 |
| 5375.3 | 22201 | 22209 | 22217 | 22225 | 22232 | 22240 | 22248 | 22256 | 22263 | 22271 |
| 5375.4 | 22279 | 22286 | 22294 | 22302 | 22310 | 22317 | 22325 | 22333 | 22341 | 22348 |
| 5375.5 | 22356 | 22364 | 22372 | 22379 | 22387 | 22395 | 22402 | 22410 | 22418 | 22426 |
| 5375.6 | 22433 | 22441 | 22449 | 22457 | 22464 | 22472 | 22480 | 22487 | 22495 | 22503 |
| 5375.7 | 22511 | 22518 | 22526 | 22534 | 22542 | 22549 | 22557 | 22565 | 22572 | 22580 |
| 5375.8 | 22588 | 22596 | 22603 | 22611 | 22619 | 22627 | 22634 | 22642 | 22650 | 22658 |
| 5375.9 | 22665 | 22673 | 22681 | 22688 | 22696 | 22704 | 22712 | 22719 | 22727 | 22735 |
| 5376.0 | 22743 | 22750 | 22758 | 22766 | 22773 | 22781 | 22789 | 22797 | 22804 | 22812 |
| 5376.1 | 22820 | 22828 | 22835 | 22843 | 22851 | 22859 | 22866 | 22874 | 22882 | 22889 |
| 5376.2 | 22897 | 22905 | 22913 | 22920 | 22928 | 22936 | 22944 | 22951 | 22959 | 22967 |
| 5376.3 | 22974 | 22982 | 22990 | 22998 | 23005 | 23013 | 23021 | 23029 | 23036 | 23044 |
| 5376.4 | 23052 | 23059 | 23067 | 23075 | 23083 | 23090 | 23098 | 23106 | 23114 | 23121 |
| 5376.5 | 23129 | 23137 | 23145 | 23152 | 23160 | 23168 | 23175 | 23183 | 23191 | 23199 |
| 5376.6 | 23206 | 23214 | 23222 | 23230 | 23237 | 23245 | 23253 | 23260 | 23268 | 23276 |
| 5376.7 | 23284 | 23291 | 23299 | 23307 | 23315 | 23322 | 23330 | 23338 | 23345 | 23353 |
| 5376.8 | 23361 | 23369 | 23376 | 23384 | 23392 | 23400 | 23407 | 23415 | 23423 | 23431 |
| 5376.9 | 23438 | 23446 | 23454 | 23461 | 23469 | 23477 | 23485 | 23492 | 23500 | 23508 |
| 5377.0 | 23516 | 23523 | 23531 | 23539 | 23546 | 23554 | 23562 | 23570 | 23577 | 23585 |
| 5377.1 | 23593 | 23601 | 23608 | 23616 | 23624 | 23632 | 23639 | 23647 | 23655 | 23662 |
| 5377.2 | 23670 | 23678 | 23686 | 23693 | 23701 | 23709 | 23717 | 23724 | 23732 | 23740 |
| 5377.3 | 23747 | 23755 | 23763 | 23771 | 23778 | 23786 | 23794 | 23802 | 23809 | 23817 |
| 5377.4 | 23825 | 23832 | 23840 | 23848 | 23856 | 23863 | 23871 | 23879 | 23887 | 23894 |
| 5377.5 | 23902 | 23910 | 23918 | 23925 | 23933 | 23941 | 23948 | 23956 | 23964 | 23972 |
| 5377.6 | 23979 | 23987 | 23995 | 24003 | 24010 | 24018 | 24026 | 24033 | 24041 | 24049 |
| 5377.7 | 24057 | 24064 | 24072 | 24080 | 24088 | 24095 | 24103 | 24111 | 24118 | 24126 |
| 5377.8 | 24134 | 24142 | 24149 | 24157 | 24165 | 24173 | 24180 | 24188 | 24196 | 24204 |
| 5377.9 | 24211 | 24219 | 24227 | 24234 | 24242 | 24250 | 24258 | 24265 | 24273 | 24281 |
| 5378.0 | 24289 | 24296 | 24304 | 24312 | 24319 | 24327 | 24335 | 24343 | 24350 | 24358 |
| 5378.1 | 24366 | 24374 | 24381 | 24389 | 24397 | 24405 | 24412 | 24420 | 24428 | 24435 |
| 5378.2 | 24443 | 24451 | 24459 | 24466 | 24474 | 24482 | 24490 | 24497 | 24505 | 24513 |
| 5378.3 | 24520 | 24528 | 24536 | 24544 | 24551 | 24559 | 24567 | 24575 | 24582 | 24590 |
| 5378.4 | 24598 | 24605 | 24613 | 24621 | 24629 | 24636 | 24644 | 24652 | 24660 | 24667 |
| 5378.5 | 24675 | 24683 | 24691 | 24698 | 24706 | 24714 | 24721 | 24729 | 24737 | 24745 |
| 5378.6 | 24752 | 24760 | 24768 | 24776 | 24783 | 24791 | 24799 | 24806 | 24814 | 24822 |
| 5378.7 | 24830 | 24837 | 24845 | 24853 | 24861 | 24868 | 24876 | 24884 | 24891 | 24899 |
| 5378.8 | 24907 | 24915 | 24922 | 24930 | 24938 | 24946 | 24953 | 24961 | 24969 | 24977 |
| 5378.9 | 24984 | 24992 | 25000 | 25007 | 25015 | 25023 | 25031 | 25038 | 25046 | 25054 |
| 5379.0 | 25062 | 25069 | 25077 | 25085 | 25092 | 25100 | 25108 | 25116 | 25123 | 25131 |
| 5379.1 | 25139 | 25147 | 25154 | 25162 | 25170 | 25178 | 25185 | 25193 | 25201 | 25208 |
| 5379.2 | 25216 | 25224 | 25232 | 25239 | 25247 | 25255 | 25263 | 25270 | 25278 | 25286 |
| 5379.3 | 25293 | 25301 | 25309 | 25317 | 25324 | 25332 | 25340 | 25348 | 25355 | 25363 |
| 5379.4 | 25371 | 25378 | 25386 | 25394 | 25402 | 25409 | 25417 | 25425 | 25433 | 25440 |
| 5379.5 | 25448 | 25456 | 25464 | 25471 | 25479 | 25487 | 25494 | 25502 | 25510 | 25518 |
| 5379.6 | 25525 | 25533 | 25541 | 25549 | 25556 | 25564 | 25572 | 25579 | 25587 | 25595 |
| 5379.7 | 25603 | 25610 | 25618 | 25626 | 25634 | 25641 | 25649 | 25657 | 25664 | 25672 |
| 5379.8 | 25680 | 25688 | 25695 | 25703 | 25711 | 25719 | 25726 | 25734 | 25742 | 25750 |
| 5379.9 | 25757 | 25765 | 25773 | 25780 | 25788 | 25796 | 25804 | 25811 | 25819 | 25827 |

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5380.0 | 25835 | 25843 | 25852 | 25860 | 25869 | 25877 | 25886 | 25895 | 25903 | 25912 |
| 5380.1 | 25920 | 25929 | 25937 | 25946 | 25954 | 25963 | 25972 | 25980 | 25989 | 25997 |
| 5380.2 | 26006 | 26014 | 26023 | 26032 | 26040 | 26049 | 26057 | 26066 | 26074 | 26083 |
| 5380.3 | 26092 | 26100 | 26109 | 26117 | 26126 | 26134 | 26143 | 26151 | 26160 | 26169 |
| 5380.4 | 26177 | 26186 | 26194 | 26203 | 26211 | 26220 | 26229 | 26237 | 26246 | 26254 |
| 5380.5 | 26263 | 26271 | 26280 | 26289 | 26297 | 26306 | 26314 | 26323 | 26331 | 26340 |
| 5380.6 | 26349 | 26357 | 26366 | 26374 | 26383 | 26391 | 26400 | 26408 | 26417 | 26426 |
| 5380.7 | 26434 | 26443 | 26451 | 26460 | 26468 | 26477 | 26486 | 26494 | 26503 | 26511 |
| 5380.8 | 26520 | 26528 | 26537 | 26546 | 26554 | 26563 | 26571 | 26580 | 26588 | 26597 |
| 5380.9 | 26605 | 26614 | 26623 | 26631 | 26640 | 26648 | 26657 | 26665 | 26674 | 26683 |
| 5381.0 | 26691 | 26700 | 26708 | 26717 | 26725 | 26734 | 26743 | 26751 | 26760 | 26768 |
| 5381.1 | 26777 | 26785 | 26794 | 26803 | 26811 | 26820 | 26828 | 26837 | 26845 | 26854 |
| 5381.2 | 26862 | 26871 | 26880 | 26888 | 26897 | 26905 | 26914 | 26922 | 26931 | 26940 |
| 5381.3 | 26948 | 26957 | 26965 | 26974 | 26982 | 26991 | 27000 | 27008 | 27017 | 27025 |
| 5381.4 | 27034 | 27042 | 27051 | 27059 | 27068 | 27077 | 27085 | 27094 | 27102 | 27111 |
| 5381.5 | 27119 | 27128 | 27137 | 27145 | 27154 | 27162 | 27171 | 27179 | 27188 | 27197 |
| 5381.6 | 27205 | 27214 | 27222 | 27231 | 27239 | 27248 | 27257 | 27265 | 27274 | 27282 |
| 5381.7 | 27291 | 27299 | 27308 | 27316 | 27325 | 27334 | 27342 | 27351 | 27359 | 27368 |
| 5381.8 | 27376 | 27385 | 27394 | 27402 | 27411 | 27419 | 27428 | 27436 | 27445 | 27454 |
| 5381.9 | 27462 | 27471 | 27479 | 27488 | 27496 | 27505 | 27513 | 27522 | 27531 | 27539 |
| 5382.0 | 27548 | 27556 | 27565 | 27573 | 27582 | 27591 | 27599 | 27608 | 27616 | 27625 |
| 5382.1 | 27633 | 27642 | 27651 | 27659 | 27668 | 27676 | 27685 | 27693 | 27702 | 27711 |
| 5382.2 | 27719 | 27728 | 27736 | 27745 | 27753 | 27762 | 27770 | 27779 | 27788 | 27796 |
| 5382.3 | 27805 | 27813 | 27822 | 27830 | 27839 | 27848 | 27856 | 27865 | 27873 | 27882 |
| 5382.4 | 27890 | 27899 | 27908 | 27916 | 27925 | 27933 | 27942 | 27950 | 27959 | 27967 |
| 5382.5 | 27976 | 27985 | 27993 | 28002 | 28010 | 28019 | 28027 | 28036 | 28045 | 28053 |
| 5382.6 | 28062 | 28070 | 28079 | 28087 | 28096 | 28105 | 28113 | 28122 | 28130 | 28139 |
| 5382.7 | 28147 | 28156 | 28165 | 28173 | 28182 | 28190 | 28199 | 28207 | 28216 | 28224 |
| 5382.8 | 28233 | 28242 | 28250 | 28259 | 28267 | 28276 | 28284 | 28293 | 28302 | 28310 |
| 5382.9 | 28319 | 28327 | 28336 | 28344 | 28353 | 28362 | 28370 | 28379 | 28387 | 28396 |
| 5383.0 | 28404 | 28413 | 28421 | 28430 | 28439 | 28447 | 28456 | 28464 | 28473 | 28481 |
| 5383.1 | 28490 | 28499 | 28507 | 28516 | 28524 | 28533 | 28541 | 28550 | 28559 | 28567 |
| 5383.2 | 28576 | 28584 | 28593 | 28601 | 28610 | 28618 | 28627 | 28636 | 28644 | 28653 |
| 5383.3 | 28661 | 28670 | 28678 | 28687 | 28696 | 28704 | 28713 | 28721 | 28730 | 28738 |
| 5383.4 | 28747 | 28756 | 28764 | 28773 | 28781 | 28790 | 28798 | 28807 | 28816 | 28824 |
| 5383.5 | 28833 | 28841 | 28850 | 28858 | 28867 | 28875 | 28884 | 28893 | 28901 | 28910 |
| 5383.6 | 28918 | 28927 | 28935 | 28944 | 28953 | 28961 | 28970 | 28978 | 28987 | 28995 |
| 5383.7 | 29004 | 29013 | 29021 | 29030 | 29038 | 29047 | 29055 | 29064 | 29072 | 29081 |
| 5383.8 | 29090 | 29098 | 29107 | 29115 | 29124 | 29132 | 29141 | 29150 | 29158 | 29167 |
| 5383.9 | 29175 | 29184 | 29192 | 29201 | 29210 | 29218 | 29227 | 29235 | 29244 | 29252 |
| 5384.0 | 29261 | 29270 | 29278 | 29287 | 29295 | 29304 | 29312 | 29321 | 29329 | 29338 |
| 5384.1 | 29347 | 29355 | 29364 | 29372 | 29381 | 29389 | 29398 | 29407 | 29415 | 29424 |
| 5384.2 | 29432 | 29441 | 29449 | 29458 | 29467 | 29475 | 29484 | 29492 | 29501 | 29509 |
| 5384.3 | 29518 | 29526 | 29535 | 29544 | 29552 | 29561 | 29569 | 29578 | 29586 | 29595 |
| 5384.4 | 29604 | 29612 | 29621 | 29629 | 29638 | 29646 | 29655 | 29664 | 29672 | 29681 |
| 5384.5 | 29689 | 29698 | 29706 | 29715 | 29724 | 29732 | 29741 | 29749 | 29758 | 29766 |
| 5384.6 | 29775 | 29783 | 29792 | 29801 | 29809 | 29818 | 29826 | 29835 | 29843 | 29852 |
| 5384.7 | 29861 | 29869 | 29878 | 29886 | 29895 | 29903 | 29912 | 29921 | 29929 | 29938 |
| 5384.8 | 29946 | 29955 | 29963 | 29972 | 29980 | 29989 | 29998 | 30006 | 30015 | 30023 |
| 5384.9 | 30032 | 30040 | 30049 | 30058 | 30066 | 30075 | 30083 | 30092 | 30100 | 30109 |

RUBY DAM STORAGE - ELEVATION TABLE

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5385.0 | 30118 | 30127 | 30136 | 30145 | 30154 | 30163 | 30173 | 30182 | 30191 | 30200 |
| 5385.1 | 30209 | 30218 | 30228 | 30237 | 30246 | 30255 | 30264 | 30273 | 30283 | 30292 |
| 5385.2 | 30301 | 30310 | 30319 | 30328 | 30338 | 30347 | 30356 | 30365 | 30374 | 30383 |
| 5385.3 | 30393 | 30402 | 30411 | 30420 | 30429 | 30438 | 30448 | 30457 | 30466 | 30475 |
| 5385.4 | 30484 | 30494 | 30503 | 30512 | 30521 | 30530 | 30539 | 30549 | 30558 | 30567 |
| 5385.5 | 30576 | 30585 | 30594 | 30604 | 30613 | 30622 | 30631 | 30640 | 30649 | 30659 |
| 5385.6 | 30668 | 30677 | 30686 | 30695 | 30704 | 30714 | 30723 | 30732 | 30741 | 30750 |
| 5385.7 | 30759 | 30769 | 30778 | 30787 | 30796 | 30805 | 30814 | 30824 | 30833 | 30842 |
| 5385.8 | 30851 | 30860 | 30869 | 30879 | 30888 | 30897 | 30906 | 30915 | 30925 | 30934 |
| 5385.9 | 30943 | 30952 | 30961 | 30970 | 30980 | 30989 | 30998 | 31007 | 31016 | 31025 |
| 5386.0 | 31035 | 31044 | 31053 | 31062 | 31071 | 31080 | 31090 | 31099 | 31108 | 31117 |
| 5386.1 | 31126 | 31135 | 31145 | 31154 | 31163 | 31172 | 31181 | 31190 | 31200 | 31209 |
| 5386.2 | 31218 | 31227 | 31236 | 31245 | 31255 | 31264 | 31273 | 31282 | 31291 | 31300 |
| 5386.3 | 31310 | 31319 | 31328 | 31337 | 31346 | 31355 | 31365 | 31374 | 31383 | 31392 |
| 5386.4 | 31401 | 31411 | 31420 | 31429 | 31438 | 31447 | 31456 | 31466 | 31475 | 31484 |
| 5386.5 | 31493 | 31502 | 31511 | 31521 | 31530 | 31539 | 31548 | 31557 | 31566 | 31576 |
| 5386.6 | 31585 | 31594 | 31603 | 31612 | 31621 | 31631 | 31640 | 31649 | 31658 | 31667 |
| 5386.7 | 31676 | 31686 | 31695 | 31704 | 31713 | 31722 | 31731 | 31741 | 31750 | 31759 |
| 5386.8 | 31768 | 31777 | 31786 | 31796 | 31805 | 31814 | 31823 | 31832 | 31842 | 31851 |
| 5386.9 | 31860 | 31869 | 31878 | 31887 | 31897 | 31906 | 31915 | 31924 | 31933 | 31942 |
| 5387.0 | 31952 | 31961 | 31970 | 31979 | 31988 | 31997 | 32007 | 32016 | 32025 | 32034 |
| 5387.1 | 32043 | 32052 | 32062 | 32071 | 32080 | 32089 | 32098 | 32107 | 32117 | 32126 |
| 5387.2 | 32135 | 32144 | 32153 | 32162 | 32172 | 32181 | 32190 | 32199 | 32208 | 32217 |
| 5387.3 | 32227 | 32236 | 32245 | 32254 | 32263 | 32272 | 32282 | 32291 | 32300 | 32309 |
| 5387.4 | 32318 | 32328 | 32337 | 32346 | 32355 | 32364 | 32373 | 32383 | 32392 | 32401 |
| 5387.5 | 32410 | 32419 | 32428 | 32438 | 32447 | 32456 | 32465 | 32474 | 32483 | 32493 |
| 5387.6 | 32502 | 32511 | 32520 | 32529 | 32538 | 32548 | 32557 | 32566 | 32575 | 32584 |
| 5387.7 | 32593 | 32603 | 32612 | 32621 | 32630 | 32639 | 32648 | 32658 | 32667 | 32676 |
| 5387.8 | 32685 | 32694 | 32703 | 32713 | 32722 | 32731 | 32740 | 32749 | 32759 | 32768 |
| 5387.9 | 32777 | 32786 | 32795 | 32804 | 32814 | 32823 | 32832 | 32841 | 32850 | 32859 |
| 5388.0 | 32869 | 32878 | 32887 | 32896 | 32905 | 32914 | 32924 | 32933 | 32942 | 32951 |
| 5388.1 | 32960 | 32969 | 32979 | 32988 | 32997 | 33006 | 33015 | 33024 | 33034 | 33043 |
| 5388.2 | 33052 | 33061 | 33070 | 33079 | 33089 | 33098 | 33107 | 33116 | 33125 | 33134 |
| 5388.3 | 33144 | 33153 | 33162 | 33171 | 33180 | 33189 | 33199 | 33208 | 33217 | 33226 |
| 5388.4 | 33235 | 33245 | 33254 | 33263 | 33272 | 33281 | 33290 | 33300 | 33309 | 33318 |
| 5388.5 | 33327 | 33336 | 33345 | 33355 | 33364 | 33373 | 33382 | 33391 | 33400 | 33410 |
| 5388.6 | 33419 | 33428 | 33437 | 33446 | 33455 | 33465 | 33474 | 33483 | 33492 | 33501 |
| 5388.7 | 33510 | 33520 | 33529 | 33538 | 33547 | 33556 | 33565 | 33575 | 33584 | 33593 |
| 5388.8 | 33602 | 33611 | 33620 | 33630 | 33639 | 33648 | 33657 | 33666 | 33676 | 33685 |
| 5388.9 | 33694 | 33703 | 33712 | 33721 | 33731 | 33740 | 33749 | 33758 | 33767 | 33776 |
| 5389.0 | 33786 | 33795 | 33804 | 33813 | 33822 | 33831 | 33841 | 33850 | 33859 | 33868 |
| 5389.1 | 33877 | 33886 | 33896 | 33905 | 33914 | 33923 | 33932 | 33941 | 33951 | 33960 |
| 5389.2 | 33969 | 33978 | 33987 | 33996 | 34006 | 34015 | 34024 | 34033 | 34042 | 34051 |
| 5389.3 | 34061 | 34070 | 34079 | 34088 | 34097 | 34106 | 34116 | 34125 | 34134 | 34143 |
| 5389.4 | 34152 | 34162 | 34171 | 34180 | 34189 | 34198 | 34207 | 34217 | 34226 | 34235 |
| 5389.5 | 34244 | 34253 | 34262 | 34272 | 34281 | 34290 | 34299 | 34308 | 34317 | 34327 |
| 5389.6 | 34336 | 34345 | 34354 | 34363 | 34372 | 34382 | 34391 | 34400 | 34409 | 34418 |
| 5389.7 | 34427 | 34437 | 34446 | 34455 | 34464 | 34473 | 34482 | 34492 | 34501 | 34510 |
| 5389.8 | 34519 | 34528 | 34537 | 34547 | 34556 | 34565 | 34574 | 34583 | 34593 | 34602 |
| 5389.9 | 34611 | 34620 | 34629 | 34638 | 34648 | 34657 | 34666 | 34675 | 34684 | 34693 |

## RUBY DAM STORAGE - ELEVATION TABLE

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5390.0 | 34703 | 34712 | 34722 | 34732 | 34741 | 34751 | 34760 | 34770 | 34780 | 34789 |
| 5390.1 | 34799 | 34809 | 34818 | 34828 | 34838 | 34847 | 34857 | 34867 | 34876 | 34886 |
| 5390.2 | 34896 | 34905 | 34915 | 34924 | 34934 | 34944 | 34953 | 34963 | 34973 | 34982 |
| 5390.3 | 34992 | 35002 | 35011 | 35021 | 35031 | 35040 | 35050 | 35060 | 35069 | 35079 |
| 5390.4 | 35089 | 35098 | 35108 | 35117 | 35127 | 35137 | 35146 | 35156 | 35166 | 35175 |
| 5390.5 | 35185 | 35195 | 35204 | 35214 | 35224 | 35233 | 35243 | 35253 | 35262 | 35272 |
| 5390.6 | 35282 | 35291 | 35301 | 35311 | 35320 | 35330 | 35339 | 35349 | 35359 | 35368 |
| 5390.7 | 35378 | 35388 | 35397 | 35407 | 35417 | 35426 | 35436 | 35446 | 35455 | 35465 |
| 5390.8 | 35475 | 35484 | 35494 | 35504 | 35513 | 35523 | 35532 | 35542 | 35552 | 35561 |
| 5390.9 | 35571 | 35581 | 35590 | 35600 | 35610 | 35619 | 35629 | 35639 | 35648 | 35658 |
| 5391.0 | 35668 | 35677 | 35687 | 35697 | 35706 | 35716 | 35725 | 35735 | 35745 | 35754 |
| 5391.1 | 35764 | 35774 | 35783 | 35793 | 35803 | 35812 | 35822 | 35832 | 35841 | 35851 |
| 5391.2 | 35861 | 35870 | 35880 | 35889 | 35899 | 35909 | 35918 | 35928 | 35938 | 35947 |
| 5391.3 | 35957 | 35967 | 35976 | 35986 | 35996 | 36005 | 36015 | 36025 | 36034 | 36044 |
| 5391.4 | 36054 | 36063 | 36073 | 36082 | 36092 | 36102 | 36111 | 36121 | 36131 | 36140 |
| 5391.5 | 36150 | 36160 | 36169 | 36179 | 36189 | 36198 | 36208 | 36218 | 36227 | 36237 |
| 5391.6 | 36247 | 36256 | 36266 | 36276 | 36285 | 36295 | 36304 | 36314 | 36324 | 36333 |
| 5391.7 | 36343 | 36353 | 36362 | 36372 | 36382 | 36391 | 36401 | 36411 | 36420 | 36430 |
| 5391.8 | 36440 | 36449 | 36459 | 36469 | 36478 | 36488 | 36497 | 36507 | 36517 | 36526 |
| 5391.9 | 36536 | 36546 | 36555 | 36565 | 36575 | 36584 | 36594 | 36604 | 36613 | 36623 |
| 5392.0 | 36633 | 36643 | 36653 | 36663 | 36673 | 36683 | 36693 | 36703 | 36713 | 36723 |
| 5392.1 | 36734 | 36744 | 36754 | 36764 | 36774 | 36784 | 36794 | 36804 | 36814 | 36824 |
| 5392.2 | 36834 | 36845 | 36855 | 36865 | 36875 | 36885 | 36895 | 36905 | 36915 | 36925 |
| 5392.3 | 36935 | 36946 | 36956 | 36966 | 36976 | 36986 | 36996 | 37006 | 37016 | 37026 |
| 5392.4 | 37036 | 37047 | 37057 | 37067 | 37077 | 37087 | 37097 | 37107 | 37117 | 37127 |
| 5392.5 | 37137 | 37147 | 37158 | 37168 | 37178 | 37188 | 37198 | 37208 | 37218 | 37228 |
| 5392.6 | 37238 | 37248 | 37259 | 37269 | 37279 | 37289 | 37299 | 37309 | 37319 | 37329 |
| 5392.7 | 37339 | 37349 | 37360 | 37370 | 37380 | 37390 | 37400 | 37410 | 37420 | 37430 |
| 5392.8 | 37440 | 37450 | 37460 | 37471 | 37481 | 37491 | 37501 | 37511 | 37521 | 37531 |
| 5392.9 | 37541 | 37551 | 37561 | 37572 | 37582 | 37592 | 37602 | 37612 | 37622 | 37632 |
| 5393.0 | 37642 | 37652 | 37662 | 37673 | 37683 | 37693 | 37703 | 37713 | 37723 | 37733 |
| 5393.1 | 37743 | 37753 | 37763 | 37773 | 37784 | 37794 | 37804 | 37814 | 37824 | 37834 |
| 5393.2 | 37844 | 37854 | 37864 | 37874 | 37885 | 37895 | 37905 | 37915 | 37925 | 37935 |
| 5393.3 | 37945 | 37955 | 37965 | 37975 | 37986 | 37996 | 38006 | 38016 | 38026 | 38036 |
| 5393.4 | 38046 | 38056 | 38066 | 38076 | 38086 | 38097 | 38107 | 38117 | 38127 | 38137 |
| 5393.5 | 38147 | 38157 | 38167 | 38177 | 38187 | 38198 | 38208 | 38218 | 38228 | 38238 |
| 5393.6 | 38248 | 38258 | 38268 | 38278 | 38288 | 38299 | 38309 | 38319 | 38329 | 38339 |
| 5393.7 | 38349 | 38359 | 38369 | 38379 | 38389 | 38399 | 38410 | 38420 | 38430 | 38440 |
| 5393.8 | 38450 | 38460 | 38470 | 38480 | 38490 | 38500 | 38511 | 38521 | 38531 | 38541 |
| 5393.9 | 38551 | 38561 | 38571 | 38581 | 38591 | 38601 | 38611 | 38622 | 38632 | 38642 |
| 5394.0 | 38652 | 38662 | 38672 | 38682 | 38692 | 38702 | 38712 | 38723 | 38733 | 38743 |
| 5394.1 | 38753 | 38763 | 38773 | 38783 | 38793 | 38803 | 38813 | 38824 | 38834 | 38844 |
| 5394.2 | 38854 | 38864 | 38874 | 38884 | 38894 | 38904 | 38914 | 38924 | 38935 | 38945 |
| 5394.3 | 38955 | 38965 | 38975 | 38985 | 38995 | 39005 | 39015 | 39025 | 39036 | 39046 |
| 5394.4 | 39056 | 39066 | 39076 | 39086 | 39096 | 39106 | 39116 | 39126 | 39137 | 39147 |
| 5394.5 | 39157 | 39167 | 39177 | 39187 | 39197 | 39207 | 39217 | 39227 | 39237 | 39248 |
| 5394.6 | 39258 | 39268 | 39278 | 39288 | 39298 | 39308 | 39318 | 39328 | 39338 | 39349 |
| 5394.7 | 39359 | 39369 | 39379 | 39389 | 39399 | 39409 | 39419 | 39429 | 39439 | 39450 |
| 5394.8 | 39460 | 39470 | 39480 | 39490 | 39500 | 39510 | 39520 | 39530 | 39540 | 39550 |
| 5394.9 | 39561 | 39571 | 39581 | 39591 | 39601 | 39611 | 39621 | 39631 | 39641 | 39651 |

## RUBY DAM STORAGE - ELEVATION TABLE

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5395.0 | 39662 | 39672 | 39683 | 39694 | 39705 | 39716 | 39727 | 39738 | 39749 | 39760 |
| 5395.1 | 39771 | 39782 | 39792 | 39803 | 39814 | 39825 | 39836 | 39847 | 39858 | 39869 |
| 5395.2 | 39880 | 39891 | 39901 | 39912 | 39923 | 39934 | 39945 | 39956 | 39967 | 39978 |
| 5395.3 | 39989 | 40000 | 40011 | 40021 | 40032 | 40043 | 40054 | 40065 | 40076 | 40087 |
| 5395.4 | 40098 | 40109 | 40120 | 40131 | 40141 | 40152 | 40163 | 40174 | 40185 | 40196 |
| 5395.5 | 40207 | 40218 | 40229 | 40240 | 40250 | 40261 | 40272 | 40283 | 40294 | 40305 |
| 5395.6 | 40316 | 40327 | 40338 | 40349 | 40360 | 40370 | 40381 | 40392 | 40403 | 40414 |
| 5395.7 | 40425 | 40436 | 40447 | 40458 | 40469 | 40479 | 40490 | 40501 | 40512 | 40523 |
| 5395.8 | 40534 | 40545 | 40556 | 40567 | 40578 | 40589 | 40599 | 40610 | 40621 | 40632 |
| 5395.9 | 40643 | 40654 | 40665 | 40676 | 40687 | 40698 | 40709 | 40719 | 40730 | 40741 |
| 5396.0 | 40752 | 40763 | 40774 | 40785 | 40796 | 40807 | 40818 | 40828 | 40839 | 40850 |
| 5396.1 | 40861 | 40872 | 40883 | 40894 | 40905 | 40916 | 40927 | 40938 | 40948 | 40959 |
| 5396.2 | 40970 | 40981 | 40992 | 41003 | 41014 | 41025 | 41036 | 41047 | 41058 | 41068 |
| 5396.3 | 41079 | 41090 | 41101 | 41112 | 41123 | 41134 | 41145 | 41156 | 41167 | 41177 |
| 5396.4 | 41188 | 41199 | 41210 | 41221 | 41232 | 41243 | 41254 | 41265 | 41276 | 41287 |
| 5396.5 | 41297 | 41308 | 41319 | 41330 | 41341 | 41352 | 41363 | 41374 | 41385 | 41396 |
| 5396.6 | 41407 | 41417 | 41428 | 41439 | 41450 | 41461 | 41472 | 41483 | 41494 | 41505 |
| 5396.7 | 41516 | 41526 | 41537 | 41548 | 41559 | 41570 | 41581 | 41592 | 41603 | 41614 |
| 5396.8 | 41625 | 41636 | 41646 | 41657 | 41668 | 41679 | 41690 | 41701 | 41712 | 41723 |
| 5396.9 | 41734 | 41745 | 41756 | 41766 | 41777 | 41788 | 41799 | 41810 | 41821 | 41832 |
| 5397.0 | 41843 | 41854 | 41865 | 41875 | 41886 | 41897 | 41908 | 41919 | 41930 | 41941 |
| 5397.1 | 41952 | 41963 | 41974 | 41985 | 41995 | 42006 | 42017 | 42028 | 42039 | 42050 |
| 5397.2 | 42061 | 42072 | 42083 | 42094 | 42104 | 42115 | 42126 | 42137 | 42148 | 42159 |
| 5397.3 | 42170 | 42181 | 42192 | 42203 | 42214 | 42224 | 42235 | 42246 | 42257 | 42268 |
| 5397.4 | 42279 | 42290 | 42301 | 42312 | 42323 | 42334 | 42344 | 42355 | 42366 | 42377 |
| 5397.5 | 42388 | 42399 | 42410 | 42421 | 42432 | 42443 | 42453 | 42464 | 42475 | 42486 |
| 5397.6 | 42497 | 42508 | 42519 | 42530 | 42541 | 42552 | 42563 | 42573 | 42584 | 42595 |
| 5397.7 | 42606 | 42617 | 42628 | 42639 | 42650 | 42661 | 42672 | 42683 | 42693 | 42704 |
| 5397.8 | 42715 | 42726 | 42737 | 42748 | 42759 | 42770 | 42781 | 42792 | 42802 | 42813 |
| 5397.9 | 42824 | 42835 | 42846 | 42857 | 42868 | 42879 | 42890 | 42901 | 42912 | 42922 |
| 5398.0 | 42933 | 42944 | 42955 | 42966 | 42977 | 42988 | 42999 | 43010 | 43021 | 43032 |
| 5398.1 | 43042 | 43053 | 43064 | 43075 | 43086 | 43097 | 43108 | 43119 | 43130 | 43141 |
| 5398.2 | 43151 | 43162 | 43173 | 43184 | 43195 | 43206 | 43217 | 43228 | 43239 | 43250 |
| 5398.3 | 43261 | 43271 | 43282 | 43293 | 43304 | 43315 | 43326 | 43337 | 43348 | 43359 |
| 5398.4 | 43370 | 43380 | 43391 | 43402 | 43413 | 43424 | 43435 | 43446 | 43457 | 43468 |
| 5398.5 | 43479 | 43490 | 43500 | 43511 | 43522 | 43533 | 43544 | 43555 | 43566 | 43577 |
| 5398.6 | 43588 | 43599 | 43610 | 43620 | 43631 | 43642 | 43653 | 43664 | 43675 | 43686 |
| 5398.7 | 43697 | 43708 | 43719 | 43729 | 43740 | 43751 | 43762 | 43773 | 43784 | 43795 |
| 5398.8 | 43806 | 43817 | 43828 | 43839 | 43849 | 43860 | 43871 | 43882 | 43893 | 43904 |
| 5398.9 | 43915 | 43926 | 43937 | 43948 | 43959 | 43969 | 43980 | 43991 | 44002 | 44013 |
| 5399.0 | 44024 | 44035 | 44046 | 44057 | 44068 | 44078 | 44089 | 44100 | 44111 | 44122 |
| 5399.1 | 44133 | 44144 | 44155 | 44166 | 44177 | 44188 | 44198 | 44209 | 44220 | 44231 |
| 5399.2 | 44242 | 44253 | 44264 | 44275 | 44286 | 44297 | 44308 | 44318 | 44329 | 44340 |
| 5399.3 | 44351 | 44362 | 44373 | 44384 | 44395 | 44406 | 44417 | 44427 | 44438 | 44449 |
| 5399.4 | 44460 | 44471 | 44482 | 44493 | 44504 | 44515 | 44526 | 44537 | 44547 | 44558 |
| 5399.5 | 44559 | 44580 | 44591 | 44602 | 44613 | 44624 | 44635 | 44646 | 44656 | 44667 |
| 5399.6 | 44678 | 44689 | 44700 | 44711 | 44722 | 44733 | 44744 | 44755 | 44766 | 44776 |
| 5399.7 | 44787 | 44798 | 44809 | 44820 | 44831 | 44842 | 44853 | 44864 | 44875 | 44886 |
| 5399.8 | 44896 | 44907 | 44918 | 44929 | 44940 | 44951 | 44962 | 44973 | 44984 | 44995 |
| 5399.9 | 45005 | 45016 | 45027 | 45038 | 45049 | 45060 | 45071 | 45082 | 45093 | 45104 |

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5400.0 | 45115 | 45126 | 45138 | 45150 | 45162 | 45174 | 45185 | 45197 | 45209 | 45221 |
| 5400.1 | 45233 | 45245 | 45256 | 45268 | 45280 | 45292 | 45304 | 45315 | 45327 | 45339 |
| 5400.2 | 45351 | 45363 | 45375 | 45386 | 45398 | 45410 | 45422 | 45434 | 45445 | 45457 |
| 5400.3 | 45469 | 45481 | 45493 | 45504 | 45516 | 45528 | 45540 | 45552 | 45564 | 45575 |
| 5400.4 | 45587 | 45599 | 45611 | 45623 | 45634 | 45646 | 45658 | 45670 | 45682 | 45694 |
| 5400.5 | 45705 | 45717 | 45729 | 45741 | 45753 | 45764 | 45776 | 45788 | 45800 | 45812 |
| 5400.6 | 45824 | 45835 | 45847 | 45859 | 45871 | 45883 | 45894 | 45906 | 45918 | 45930 |
| 5400.7 | 45942 | 45953 | 45965 | 45977 | 45989 | 46001 | 46013 | 46024 | 46036 | 46048 |
| 5400.8 | 46060 | 46072 | 46083 | 46095 | 46107 | 46119 | 46131 | 46143 | 46154 | 46166 |
| 5400.9 | 46178 | 46190 | 46202 | 46213 | 46225 | 46237 | 46249 | 46261 | 46273 | 46284 |
| 5401.0 | 46296 | 46308 | 46320 | 46332 | 46343 | 46355 | 46367 | 46379 | 46391 | 46402 |
| 5401.1 | 46414 | 46426 | 46438 | 46450 | 46462 | 46473 | 46485 | 46497 | 46509 | 46521 |
| 5401.2 | 46532 | 46544 | 46556 | 46568 | 46580 | 46592 | 46603 | 46615 | 46627 | 46639 |
| 5401.3 | 46651 | 46662 | 46674 | 46686 | 46698 | 46710 | 46722 | 46733 | 46745 | 46757 |
| 5401.4 | 46769 | 46781 | 46792 | 46804 | 46816 | 46828 | 46840 | 46852 | 46863 | 46875 |
| 5401.5 | 46887 | 46899 | 46911 | 46922 | 46934 | 46946 | 46958 | 46970 | 46981 | 46993 |
| 5401.6 | 47005 | 47017 | 47029 | 47041 | 47052 | 47064 | 47076 | 47088 | 47100 | 47111 |
| 5401.7 | 47123 | 47135 | 47147 | 47159 | 47171 | 47182 | 47194 | 47206 | 47218 | 47230 |
| 5401.8 | 47241 | 47253 | 47265 | 47277 | 47289 | 47301 | 47312 | 47324 | 47336 | 47348 |
| 5401.9 | 47360 | 47371 | 47383 | 47395 | 47407 | 47419 | 47430 | 47442 | 47454 | 47466 |
| 5402.0 | 47478 | 47490 | 47501 | 47513 | 47525 | 47537 | 47549 | 47560 | 47572 | 47584 |
| 5402.1 | 47596 | 47608 | 47620 | 47631 | 47643 | 47655 | 47667 | 47679 | 47690 | 47702 |
| 5402.2 | 47714 | 47726 | 47738 | 47750 | 47761 | 47773 | 47785 | 47797 | 47809 | 47820 |
| 5402.3 | 47832 | 47844 | 47856 | 47868 | 47879 | 47891 | 47903 | 47915 | 47927 | 47939 |
| 5402.4 | 47950 | 47962 | 47974 | 47986 | 47998 | 48009 | 48021 | 48033 | 48045 | 48057 |
| 5402.5 | 48069 | 48080 | 48092 | 48104 | 48116 | 48128 | 48139 | 48151 | 48163 | 48175 |
| 5402.6 | 48187 | 48199 | 48210 | 48222 | 48234 | 48246 | 48258 | 48269 | 48281 | 48293 |
| 5402.7 | 48305 | 48317 | 48329 | 48340 | 48352 | 48364 | 48376 | 48388 | 48399 | 48411 |
| 5402.8 | 48423 | 48435 | 48447 | 48458 | 48470 | 48482 | 48494 | 48506 | 48518 | 48529 |
| 5402.9 | 48541 | 48553 | 48565 | 48577 | 48588 | 48600 | 48612 | 48624 | 48636 | 48648 |
| 5403.0 | 48659 | 48671 | 48683 | 48695 | 48707 | 48718 | 48730 | 48742 | 48754 | 48766 |
| 5403.1 | 48778 | 48789 | 48801 | 48813 | 48825 | 48837 | 48848 | 48860 | 48872 | 48884 |
| 5403.2 | 48896 | 48907 | 48919 | 48931 | 48943 | 48955 | 48967 | 48978 | 48990 | 49002 |
| 5403.3 | 49014 | 49026 | 49037 | 49049 | 49061 | 49073 | 49085 | 49097 | 49108 | 49120 |
| 5403.4 | 49132 | 49144 | 49156 | 49167 | 49179 | 49191 | 49203 | 49215 | 49227 | 49238 |
| 5403.5 | 49250 | 49262 | 49274 | 49286 | 49297 | 49309 | 49321 | 49333 | 49345 | 49356 |
| 5403.6 | 49368 | 49380 | 49392 | 49404 | 49416 | 49427 | 49439 | 49451 | 49463 | 49475 |
| 5403.7 | 49486 | 49498 | 49510 | 49522 | 49534 | 49546 | 49557 | 49569 | 49581 | 49593 |
| 5403.8 | 49605 | 49616 | 49628 | 49640 | 49652 | 49664 | 49676 | 49687 | 49699 | 49711 |
| 5403.9 | 49723 | 49735 | 49746 | 49758 | 49770 | 49782 | 49794 | 49806 | 49817 | 49829 |
| 5404.0 | 49841 | 49853 | 49865 | 49876 | 49888 | 49900 | 49912 | 49924 | 49935 | 49947 |
| 5404.1 | 49959 | 49971 | 49983 | 49995 | 50006 | 50018 | 50030 | 50042 | 50054 | 50065 |
| 5404.2 | 50077 | 50089 | 50101 | 50113 | 50125 | 50136 | 50148 | 50160 | 50172 | 50184 |
| 5404.3 | 50195 | 50207 | 50219 | 50231 | 50243 | 50255 | 50266 | 50278 | 50290 | 50302 |
| 5404.4 | 50314 | 50325 | 50337 | 50349 | 50361 | 50373 | 50384 | 50396 | 50408 | 50420 |
| 5404.5 | 50432 | 50444 | 50455 | 50467 | 50479 | 50491 | 50503 | 50514 | 50526 | 50538 |
| 5404.6 | 50550 | 50562 | 50574 | 50585 | 50597 | 50609 | 50621 | 50633 | 50644 | 50656 |
| 5404.7 | 50668 | 50680 | 50692 | 50704 | 50715 | 50727 | 50739 | 50751 | 50763 | 50774 |
| 5404.8 | 50786 | 50798 | 50810 | 50822 | 50833 | 50845 | 50857 | 50869 | 50881 | 50893 |
| 5404.9 | 50904 | 50916 | 50928 | 50940 | 50952 | 50963 | 50975 | 50987 | 50999 | 51011 |

## RUBY DAM STORAGE - ELEVATION TABLE

| GH | .00 | .01 | .02 | .03 | .04 | .05 | .06 | .07 | .08 | .09 |
|---|---|---|---|---|---|---|---|---|---|---|
| 5405.0 | 51023 | 51035 | 51048 | 51061 | 51073 | 51086 | 51099 | 51111 | 51124 | 51137 |
| 5405.1 | 51150 | 51162 | 51175 | 51188 | 51200 | 51213 | 51226 | 51238 | 51251 | 51264 |
| 5405.2 | 51276 | 51289 | 51302 | 51315 | 51327 | 51340 | 51353 | 51365 | 51378 | 51391 |
| 5405.3 | 51403 | 51416 | 51429 | 51442 | 51454 | 51467 | 51480 | 51492 | 51505 | 51518 |
| 5405.4 | 51530 | 51543 | 51556 | 51568 | 51581 | 51594 | 51607 | 51619 | 51632 | 51645 |
| 5405.5 | 51657 | 51670 | 51683 | 51695 | 51708 | 51721 | 51734 | 51746 | 51759 | 51772 |
| 5405.6 | 51784 | 51797 | 51810 | 51822 | 51835 | 51848 | 51860 | 51873 | 51886 | 51899 |
| 5405.7 | 51911 | 51924 | 51937 | 51949 | 51962 | 51975 | 51987 | 52000 | 52013 | 52026 |
| 5405.8 | 52038 | 52051 | 52064 | 52076 | 52089 | 52102 | 52114 | 52127 | 52140 | 52152 |
| 5405.9 | 52165 | 52178 | 52191 | 52203 | 52216 | 52229 | 52241 | 52254 | 52267 | 52279 |
| 5406.0 | 52292 | 52305 | 52318 | 52330 | 52343 | 52356 | 52368 | 52381 | 52394 | 52406 |
| 5406.1 | 52419 | 52432 | 52445 | 52457 | 52470 | 52483 | 52495 | 52508 | 52521 | 52533 |
| 5406.2 | 52546 | 52559 | 52571 | 52584 | 52597 | 52610 | 52622 | 52635 | 52648 | 52660 |
| 5406.3 | 52673 | 52686 | 52698 | 52711 | 52724 | 52737 | 52749 | 52762 | 52775 | 52787 |
| 5406.4 | 52800 | 52813 | 52825 | 52838 | 52851 | 52863 | 52876 | 52889 | 52902 | 52914 |
| 5406.5 | 52927 | 52940 | 52952 | 52965 | 52978 | 52990 | 53003 | 53016 | 53029 | 53041 |
| 5406.6 | 53054 | 53067 | 53079 | 53092 | 53105 | 53117 | 53130 | 53143 | 53155 | 53168 |
| 5406.7 | 53181 | 53194 | 53206 | 53219 | 53232 | 53244 | 53257 | 53270 | 53282 | 53295 |
| 5406.8 | 53308 | 53321 | 53333 | 53346 | 53359 | 53371 | 53384 | 53397 | 53409 | 53422 |
| 5406.9 | 53435 | 53447 | 53460 | 53473 | 53486 | 53498 | 53511 | 53524 | 53536 | 53549 |
| 5407.0 | 53562 | 53574 | 53587 | 53600 | 53613 | 53625 | 53638 | 53651 | 53663 | 53676 |
| 5407.1 | 53689 | 53701 | 53714 | 53727 | 53739 | 53752 | 53765 | 53778 | 53790 | 53803 |
| 5407.2 | 53816 | 53828 | 53841 | 53854 | 53866 | 53879 | 53892 | 53905 | 53917 | 53930 |
| 5407.3 | 53943 | 53955 | 53968 | 53981 | 53993 | 54006 | 54019 | 54032 | 54044 | 54057 |
| 5407.4 | 54070 | 54082 | 54095 | 54108 | 54120 | 54133 | 54146 | 54158 | 54171 | 54184 |
| 5407.5 | 54197 | 54209 | 54222 | 54235 | 54247 | 54260 | 54273 | 54285 | 54298 | 54311 |
| 5407.6 | 54324 | 54336 | 54349 | 54362 | 54374 | 54387 | 54400 | 54412 | 54425 | 54438 |
| 5407.7 | 54450 | 54463 | 54476 | 54489 | 54501 | 54514 | 54527 | 54539 | 54552 | 54565 |
| 5407.8 | 54577 | 54590 | 54603 | 54616 | 54628 | 54641 | 54654 | 54666 | 54679 | 54692 |
| 5407.9 | 54704 | 54717 | 54730 | 54742 | 54755 | 54768 | 54781 | 54793 | 54806 | 54819 |
| 5408.0 | 54831 | 54844 | 54857 | 54869 | 54882 | 54895 | 54908 | 54920 | 54933 | 54946 |
| 5408.1 | 54958 | 54971 | 54984 | 54996 | 55009 | 55022 | 55034 | 55047 | 55060 | 55073 |
| 5408.2 | 55085 | 55098 | 55111 | 55123 | 55136 | 55149 | 55161 | 55174 | 55187 | 55200 |
| 5408.3 | 55212 | 55225 | 55238 | 55250 | 55263 | 55276 | 55288 | 55301 | 55314 | 55326 |
| 5408.4 | 55339 | 55352 | 55365 | 55377 | 55390 | 55403 | 55415 | 55428 | 55441 | 55453 |
| 5408.5 | 55466 | 55479 | 55492 | 55504 | 55517 | 55530 | 55542 | 55555 | 55568 | 55580 |
| 5408.6 | 55593 | 55606 | 55619 | 55631 | 55644 | 55657 | 55669 | 55682 | 55695 | 55707 |
| 5408.7 | 55720 | 55733 | 55745 | 55758 | 55771 | 55784 | 55796 | 55809 | 55822 | 55834 |
| 5408.8 | 55847 | 55860 | 55872 | 55885 | 55898 | 55911 | 55923 | 55936 | 55949 | 55961 |
| 5408.9 | 55974 | 55987 | 55999 | 56012 | 56025 | 56037 | 56050 | 56063 | 56076 | 56088 |
| 5409.0 | 56101 | 56114 | 56126 | 56139 | 56152 | 56164 | 56177 | 56190 | 56203 | 56215 |
| 5409.1 | 56228 | 56241 | 56253 | 56266 | 56279 | 56291 | 56304 | 56317 | 56329 | 56342 |
| 5409.2 | 56355 | 56368 | 56380 | 56393 | 56406 | 56418 | 56431 | 56444 | 56456 | 56469 |
| 5409.3 | 56482 | 56495 | 56507 | 56520 | 56533 | 56545 | 56558 | 56571 | 56583 | 56596 |
| 5409.4 | 56609 | 56621 | 56634 | 56647 | 56660 | 56672 | 56685 | 56698 | 56710 | 56723 |
| 5409.5 | 56736 | 56748 | 56761 | 56774 | 56787 | 56799 | 56812 | 56825 | 56837 | 56850 |
| 5409.6 | 56863 | 56875 | 56888 | 56901 | 56913 | 56926 | 56939 | 56952 | 56964 | 56977 |
| 5409.7 | 56990 | 57002 | 57015 | 57028 | 57040 | 57053 | 57066 | 57079 | 57091 | 57104 |
| 5409.8 | 57117 | 57129 | 57142 | 57155 | 57167 | 57180 | 57193 | 57206 | 57218 | 57231 |
| 5409.9 | 57244 | 57256 | 57269 | 57282 | 57294 | 57307 | 57320 | 57332 | 57345 | 57358 |

# APPENDIX B

## INSPECTION CHECKLIST

NAME OF DAM _____

DATE INSPECTED _____

INVENTORY NO. _____
HAZARD CATEGORY _____
TYPE OF DAM _____
YEAR BUILT _____

OWNER _____
OPERATOR _____
STREAM _____
DRAINAGE AREA _____

Reservoir Storage Status

|  | Water Surface Elevation (feet) | Storage (acre-feet) |
|---|---|---|
| At time of inspection | _____ | _____ |
| At spillway crest | _____ | _____ |
| At min. dam crest elevation | _____ | _____ |
| Flashboard crest elevation | _____ | _____ |

| ITEM | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|

1. **EMBANKMENT**

A. Crest -- Height=          Length=          Width=

| | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|
| (1) Any visual settlements? | | | | 3 |
| (2) Any misalignments? | | | | 4 |
| (3) Any cracking? | | | | 1 |
| (4) Any traffic damage? | | | | 5 |
| (5) Other? | | | | 7 |

NOTE: *ICC stands for "Inventory Comment Code" which is found on the Inventory of Montana Dams. This comment code is for use by the Dam Safety Section.

| ITEM | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|
| **1. EMBANKMENT (continued)** | | | | |

**B. Upstream Face -- Slope=**

| ITEM | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|
| (1) Any erosion? | | | | 13 |
| (2) Any longitudinal cracks? | | | | 9 |
| (3) Any transverse cracks? | | | | 9 |
| (4) Is riprap protection adequate? | | | | 10 |
| (5) Any stone deterioration? | | | | 10 |
| (6) Any visual settlement, slumps, sloughing, depressions or bulges? | | | | 9 |
| (7) Adequate grass cover? | | | | 14 |
| (8) Debris on the dam face? | | | | 15 |
| (9) Other? | | | | 16 |

**C. Downstream Face--Slope=**

| ITEM | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|
| (1) Any erosion? | | | | 22 |
| (2) Any longitudinal cracks? | | | | 18 |
| (3) Any transverse cracks? | | | | 18 |
| (4) Any visual settlement, sloughing, slumps, depressions or bulges? | | | | 19 |
| (5) Is the toe drain dry? | | | | 31 |
| (6) Are the relief wells flowing? | | | | 31 |
| (7) Any boils at the toe? | | | | 18 |
| (8) Any seepage areas? | | | | 17, 18 |
| (9) Any traffic or animal damage? | | | | 22 |
| (10) Any burrowing animals? | | | | 21 |
| (11) Adequate grass cover? | | | | 24 |
| (12) Other? | | | | 25 |

**D. Amount and Type of Vegetation on the Dam**

| | |
|---|---|
| | 14, 24 |

| ITEM | YES | NO | REMARKS | *ICC |
|------|-----|-----|---------|------|

### 2. ABUTMENT CONTACTS

| ITEM | YES | NO | REMARKS | *ICC |
|------|-----|-----|---------|------|
| (A) Any erosion? | | | | 12, 20 |
| (B) Any visual differential movement? | | | | 12, 20 |
| (C) Any cracks? | | | | 12, 20 |
| (D) Any seepage present? | | | | 36 |
| (E) Other? | | | | 16, 25 |

### 3. OUTLET WORKS

A. Intake Structure -- Size=

| ITEM | YES | NO | REMARKS | *ICC |
|------|-----|-----|---------|------|
| (1) Any settlement? | | | | 70 |
| (2) Any tilting? | | | | 70 |
| (3) Do concrete surfaces show: | | | | |
| a. Spalling? | | | | 70 |
| b. Cracking? | | | | 70 |
| c. Erosion? | | | | 70 |
| d. Exposed reinforcement? | | | | 70 |
| (4) Do joints show: | | | | |
| a. Displacement or offset? | | | | 70 |
| b. Loss of joint material? | | | | 70 |
| c. Leakage? | | | | 70 |
| (5) Metal appurtenances: | | | | |
| a. Any corrosion present? | | | | 70 |
| b. Any breakage present? | | | | 70 |
| (6) Trash rack? | | | | 71 |
| a. Condition? | | | | 71 |
| b. Anchor system secure? | | | | 71 |
| (7) Other? | | | | 71 |

| ITEM | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|

3. OUTLET WORKS (continued)

B. Conduit -- Type =      Size =

| | | | | |
|---|---|---|---|---|
| (1) Do concrete surfaces show: | | | | |
| a. Spalling? | | | | 76 |
| b. Cracking? | | | | 76 |
| c. Erosion? | | | | 76 |
| d. Exposed reinforcement? | | | | 76 |
| (2) Do joints show: | | | | |
| a. Displacement or offset? | | | | 76 |
| b. Loss of joint material? | | | | 76 |
| c. Leakage? | | | | 76 |
| (3) Is the conduit metal? | | | | 76 |
| a. Any corrosion present? | | | | 76 |
| b. Protective coatings adequate? | | | | 76 |
| (4) Is the conduit misaligned? | | | | 76 |
| (5) Any calcium deposits? | | | | 76 |
| (6) Other? | | | | 76 |

C. Gates and Tower

| | | | | |
|---|---|---|---|---|
| (1) Gates: | | | | 73, 74 |
| a. Size: Operating:      Emergency: <br> b. Type: Operating:      Emergency: | | | | |
| (2) Controls operational? | | | | 76 |
| (3) Controls lubricated? | | | | 76 |
| (4) Operational problems? | | | | 76 |
| (5) Leakage around gates? | | | | 73, 74 |
| (6) Condition of gate seals? | | | | 73, 74 |
| (7) Any cavitation damage? If so, describe? | | | | 73, 74 |
| (8) Describe air vent-size and condition. | | | | 73, 74 |

| ITEM | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|

### 3. OUTLET WORKS

#### C. Gates and Tower (continued)

| | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|
| (9) Is there a jet pump? | | | | 62 |
| a. Is it operational? | | | | 62 |
| b. Leakage? | | | | 82 |
| (10) Is the tower dry? _____ wet? _____ | | | | 77 |
| (11) Any seepage in the tower? | | | | 77 |
| (12) Condition of the tower? | | | | 77 |
| (13) Any safety problems? | | | | 77 |
| (14) Ladder in good condition? | | | | 77 |
| (15) Condition of the gate house? | | | | 81 |
| (16) Emergency plan completed for the dam? | | | | 43 |
| a. Posted in the gatehouse? | | | | 43 |
| (17) Other? | | | | 82 |

#### D. Stilling Basin

| | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|
| (1) Do concrete surfaces show: | | | | |
| a. Spalling? | | | | 62 |
| b. Cracking? | | | | 62 |
| c. Erosion? | | | | 62 |
| d. Exposed reinforcement? | | | | 62 |
| (2) Do joints show: | | | | |
| a. Displacement or offset? | | | | 62 |
| b. Loss of joint material? | | | | 62 |
| c. Leakage? | | | | 62 |
| (3) Do energy dissipators show: | | | | |
| a. Signs of deterioration? | | | | 62 |
| b. Are they covered with debris? | | | | 62 |
| (4) Other? | | | | 63 |

| ITEM | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|

**3. OUTLET WORKS (continued)**

**E. Downstream Channel**

| ITEM | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|
| (1) Is the channel: | | | | |
| a. Eroding or backcutting? | | | | 38 |
| b. Sloughing? | | | | 38 |
| c. Obstructed? | | | | 40 |
| (2) Is released water: | | | | |
| a. Undercutting the outlet? | | | | 52, 62 |
| b. Eroding the embankment? | | | | 52, 62 |
| (3) Other? | | | | 56,63 |

**4. SPILLWAY**

**A. Description**

| ITEM | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|
| (1) Location? | | | | N/A |
| (2) Type of Spillway? | | | | N/A |
| (3) Size of Spillway? | | | | N/A |
| (4) Spillway lining? | | | | N/A |
| (5) Is there a weir? | | | | 61 |
| (6) Is the spillway in good condition? | | | | N/A |
| (7) Any drains? | | | | N/A |
| a. Describe the condition of drains. | | | | 64 |

**B. Does spillway show:**

| ITEM | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|
| (1) Any cracking concrete? | | | | 57, 58 |
| (2) Any spalling concrete? | | | | 57, 58 |
| (3) Any exposed reinforcement in the concrete? | | | | 57, 58 |
| (4) Any erosion? | | | | 52 |

| ITEM | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|

4. B. Does spillway show: (continued)

| ITEM | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|
| (5) Any slope sloughing? | | | | 51 |
| (6) Any obstructions? | | | | 54 |
| (7) Displacement or offset joints? | | | | 59 |
| (8) Loss of joint material? | | | | 57, 58 |
| (9) Leakage at the joints? | | | | 57, 58 |
| (10) Other? | | | | 63 |

C. Do the energy dissipators show:

| ITEM | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|
| (1) Signs of deterioration? | | | | 62 |
| (2) Any cracking? | | | | 62 |
| (3) Any spalling? | | | | 62 |
| (4) Any exposed reinforcement? | | | | 62 |
| (5) Are they covered with debris? | | | | 62 |
| (6) Other? | | | | 64 |

D. Has release water:

| ITEM | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|
| (1) Eroded the embankment? | | | | 52 |
| (2) Undercut the outlet? | | | | 52 |
| (3) Eroded the downstream channel? | | | | 52 |
| (4) Other? | | | | 56 |

E. Emergency Spillway

| ITEM | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|
| (1) Is there an emergency spillway? | | | (If YES, describe) | 55 |

| ITEM | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|

**5. RESERVOIR CONTROL**

| ITEM | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|
| (A) Recent upstream development? | | | | 47 |
| (B) Recent downstream development? | | | | 42 |
| (C) Slides in reservoir area? | | | | 44 |
| (D) Change in reservoir operation? | | | | 48 |
| (E) Large impoundment upstream? | | | | 49 |
| (F) Any debris in the reservoir? | | | | 50 |
| (G) Other? | | | | 50 |

**6. INSTRUMENTATION**

| ITEM | YES | NO | REMARKS | *ICC |
|---|---|---|---|---|
| (A) List type(s) of instrumentation: | | | | 27-33 |
| (B) In good condition? | | | | 27-33 |
| (C) Read periodically? | | | | 27-33 |
| (D) Is data available? | | | | 27-33 |
| (E) Include all data gathered since last report. | | | | |

**7. DOWNSTREAM CONDITION**

A. Downstream Land Use.

| | *ICC |
|---|---|
| | 41 |

This dam was inspected by:

Additional comments and recommendations. (Use additional pages)

# APPENDIX C

## RUBY RIVER RESERVOIR GUIDELINES

## RUBY RIVER RESERVOIR GUIDELINES

The reservoir is to be operated within the guidelines outlined below.

### Regulate Outflow

*Goals*:
- ° Satisfy contracts.[1]
- ° Minimize erosion and downstream flooding.
- ° Prevent dewatering of the Ruby River downstream from the reservoir.

*Guidelines*:

1. The maximum sustainable outflow is 18,000 miner's inches (450 cfs). This rate can be exceeded up to a maximum of 24,000 miner's inches (600 cfs) for short periods of time.

2. A minimum flow of 800 to 1,200 miner's inches (20-30 cfs) must be maintained at the dam outlet.

3. If there is a demand from decreed water users, the amount of the inflow to the dam shall be allowed to flow out of the reservoir and past the diversion dam.

4. The RRWUA will work with contract holders, decreed water users and the DNRC to implement the <u>Water Delivery and Dewatering Prevention Plan</u> for the Ruby River.

5. The RRWUA shall notify the DNRC when flows drop to key points identified in the <u>Water Delivery and Dewatering Prevention Plan</u>. Staff gage readings from the following bridges will also be reported to the DNRC as noted in the plan: Coy Brown, Alder, Laurin, Silver Springs, Harrington and Wheatley.

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[1] Peak irrigation demand is typically 20,000 to 25,000 miner's inches 500 to 625 cfs). In mid-July irrigation demands decrease to 12,000 to 15,000 miner's inches (300 to 375 cfs).

## Regulate Reservoir Elevations

*Goals*:  °  Provide stored water to fulfill contracts.

°  Prevent sediment from washing out of the reservoir and adversely affecting water quality downstream by maintaining a minimum pool in the reservoir.

*Guidelines*:  1.  By April 1 of each year, the RRWUA and the DNRC shall meet to evaluate reservoir storage, snowpack, streamflow, streamflow forecast, soil moisture and the weather forecast.

If the reservoir elevation is higher than average[2] and indications are that a wet, high runoff spring could exist, the RRWUA and the DNRC will consider increasing the outflow to provide some capacity for flood control and also to postpone the spill so that it coincides with peak irrigation demand.

If the reservoir elevation is lower than average and conditions indicate that a dry, low runoff spring[3] could exist, the RRWUA and DNRC will evaluate alternatives for allocating water to ensure that water is available throughout the irrigation season.

2.  The RRWUA will notify the DNRC when the free-flow or natural flow period has ended and the RRWUA begins to satisfy contracts for stored water.

3.  If the amount of water in the reservoir drops to 7,500 acre-feet, representatives of the RRWUA, the DNRC and the Department of Fish, Wildlife and Parks will meet to

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[2] 5,384 feet.

[3] For example, dry conditions existed during the years 1988, 1992 and 1994. Conditions during these years can be used for comparison purposes.

discuss future operation of the reservoir and to determine what accommodations need to be made in order to maintain a minimum pool. The DNRC will establish a benchmark at the corresponding elevation.

4. The reservoir storage may not be drawn down below 2,600 acre-feet, which is the absolute minimum pool. The DNRC will establish a benchmark at the corresponding elevation.

5. The RRWUA will report to the DNRC every two weeks on the current reservoir elevation.

## Emergency Response

*Goals*: ° Provide maximum early warning in the event of a failure of the Ruby Dam. Minimize loss of life or property.

*Guidelines*: 1. The RRWUA will follow the Emergency Plan for the Ruby Reservoir.

## Maintenance

*Goals*: ° Maintain the dam in good condition so that it will continue to fulfill its function of providing a reliable source of irrigation water.

° Maintain the dam in good condition so as to minimize the risk to life or property downstream of the dam.

*Guidelines*: 1. The RRWUA will operate and maintain the reservoir in accordance with the Ruby River Reservoir Manual for Operation and Maintenance.